

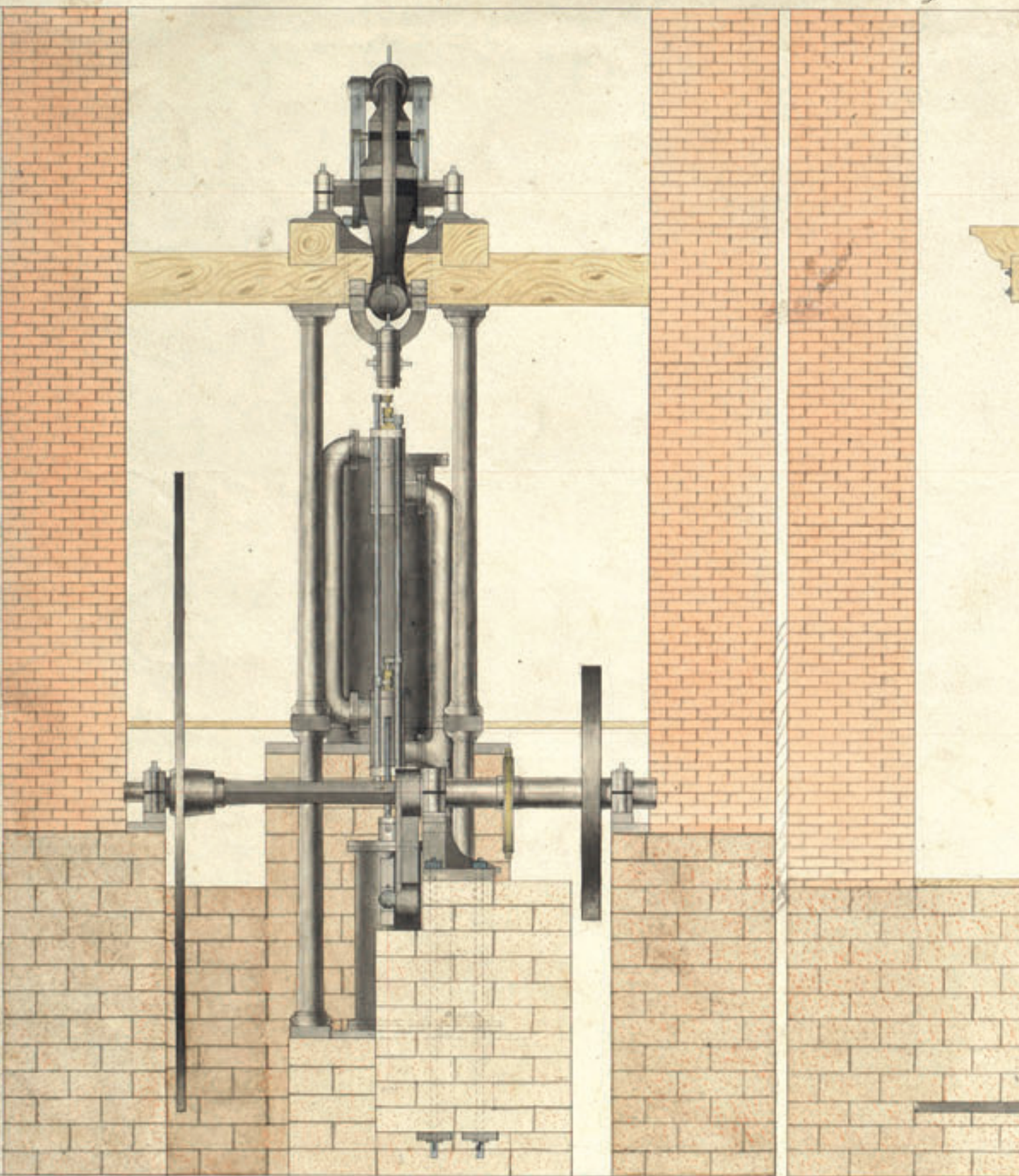
THE JONATHAN MINNS COLLECTION OF ENGINEERED AND OTHER MODELS

Tuesday 22 September 2015

Knightsbridge, London



Bonhams



THE JONATHAN MINNS COLLECTION OF ENGINEERED AND OTHER MODELS

Tuesday 22 September 2015 at 1pm
Knightsbridge, London

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Front cover: Lot 78
Back cover: Lot 79
Inside front cover: Lot 80
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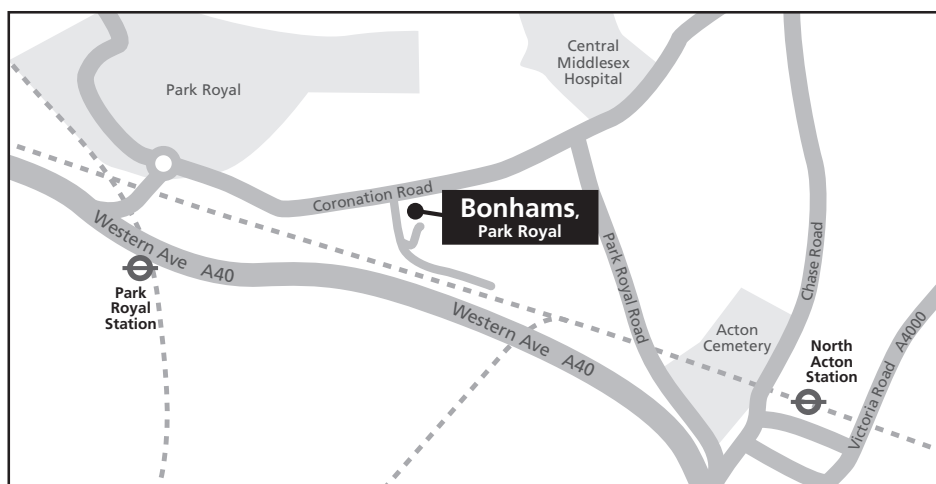
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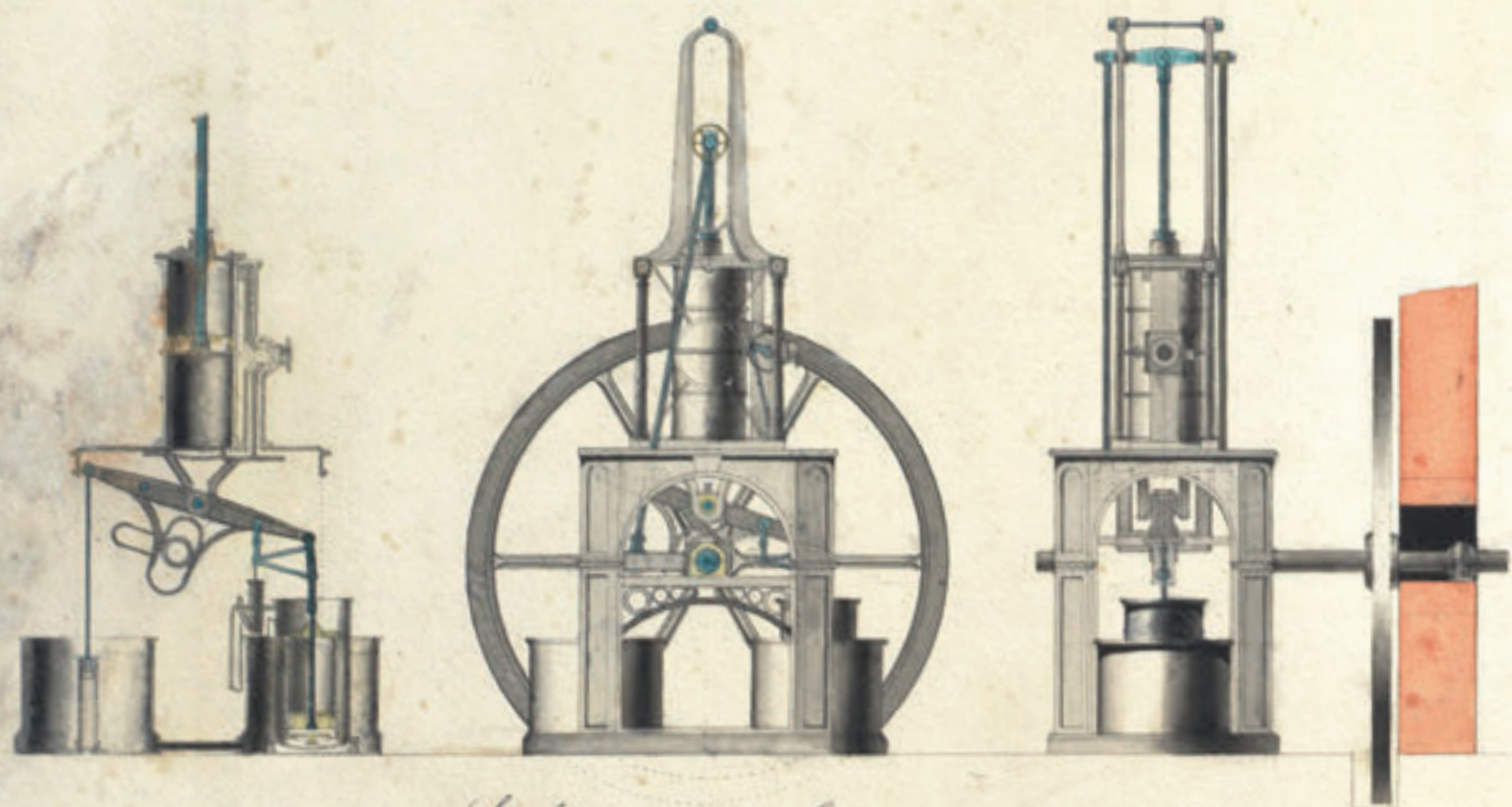
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*Maudslays VI Horse Engine
With Crane*



Scale $\frac{1}{2}$ Inch = 1 Foot.



Jonathan Minns tinkers with his 2002 kinetic sculpture 'Water Cycle' designed by him and seen in its final stages of fabrication at the British Engineerium before being shipped piece by piece to its current location in Raffles Square, Singapore.

JONATHAN MINNS (1938-2013)

The engineer and conservationist Jonathan Minns, spent a large part of his adult life happily immersed in a world of steam, encompassing giant Victorian beam engines, traction engines, engines for boats and horse-drawn fire engines. There were simple engines, compound engines, triple-expansion engines and, perhaps the highlight of the rich collection of machines he garnered over several decades, George Stephenson's own, hand built model of Locomotion, the famous Stockton and Darlington railway locomotive that steamed, at speeds of up to 15mph, during the reign of William IV.

Minns brought these treasures together in the 1970s at the redundant Goldstone pumping station, a grand and polychrome Sussex shrine to Victorian sanitation complete with a 95ft chimney modelled on a campanile. Opened in 1866, it was built, under the direction of the self-taught Nottingham engineer Thomas Hawksley, to supply water to Brighton and Hove. From 1971, Minns campaigned energetically to save this magnificent waterworks, complete with a pair of mighty compound beam engines – as much architecture as engineering – installed by various incarnations of the firm Easton and Amos.

Five years later, the principal buildings of the pumping station were listed Grade II*, and Minns, who had been working on its restoration since 1974, reopened it as a steam museum. In 1981, he named it the British Engineerium; an instructive and heartfelt celebration of veteran steam technology, it was also a centre for conservation skills and training.

To pay for it, Minns worked on 166 restoration and steam museum projects worldwide leaving a lasting legacy and cementing Minns' reputation as a world expert in the field. Despite this, the money ran out and in 2006 the collection was nearly auctioned off. Instead a last minute deal was struck with a local businessman that passed half the collection onto him and secured the future of this much-loved educational and renowned centre of historic steam technology.

Minns gave the other half of his collection to his four children and it is this half of the renowned Jonathan Minns collection that is featured in this auction.

Minns, one of three brothers, was born in London and brought up in Earls Court and Hampstead. His father, Anthony Minns, had studied engineering at Cambridge and had business interests in docks and shipping. Jonathan's mother, Margaret, was the daughter of Sir Sydney Cockerell, a clerk in the coal business who, after sending John Ruskin an interesting collection of seashells, was soon working as William Morris's secretary, going on to become curator of the Fitzwilliam Museum, Cambridge. His son, Christopher, was the inventor of the hovercraft.

After a patchy showing at prep and private schools – he shot his foot and damaged a toe, with a blank from a .303 Lee-Enfield rifle while with the officer training corps at Haileybury, Hertford, and was dishonourably discharged – Minns announced that he wanted to train as an engineer.

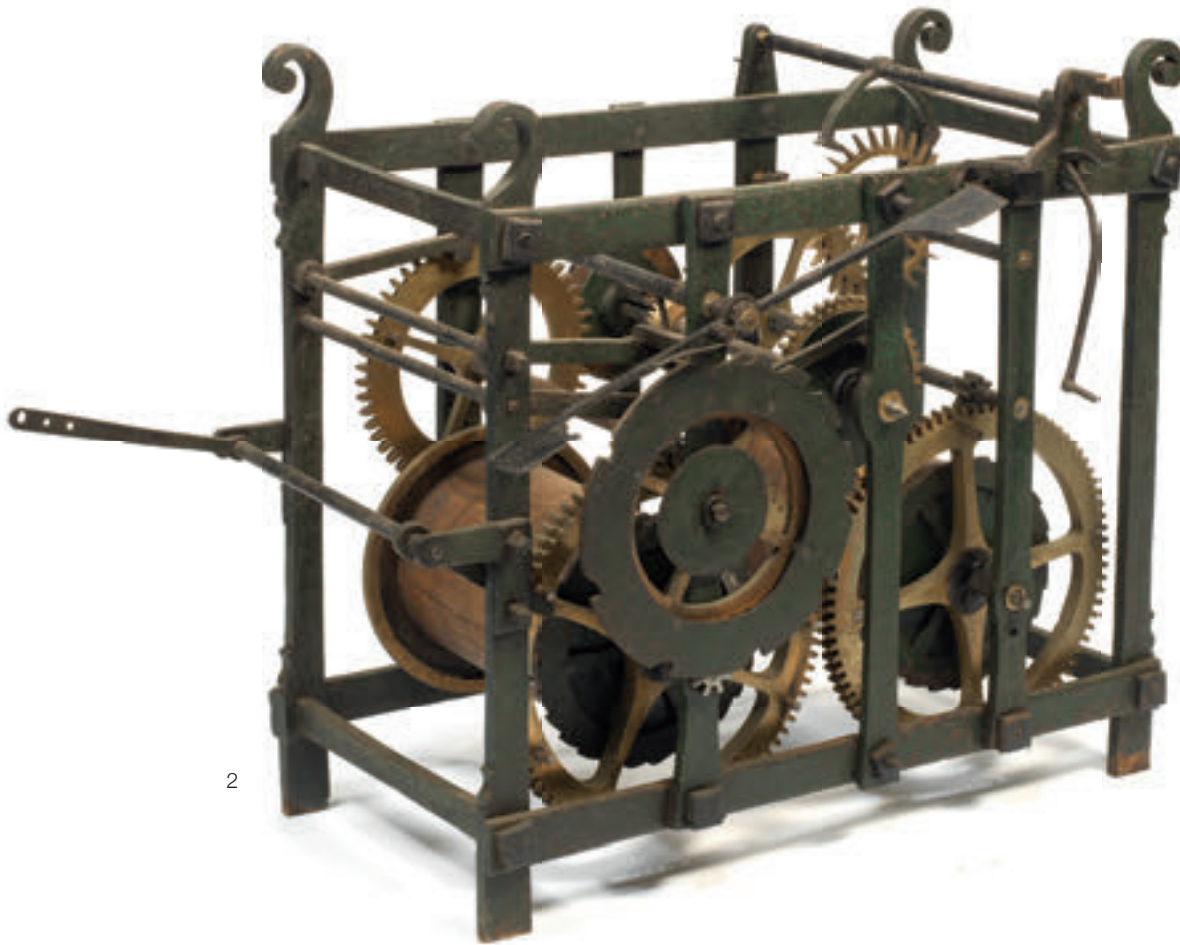
His family was concerned. Engineering was for "oily rags", not for expensively educated public schoolboys. He got his way, and much enjoyed serving his time at WH Allen, a Bedford firm specialising in turbines, pumps and gears that had built the steam engines for RMS Titanic and today is a part of Rolls-Royce.

As a young man, Minns's father packed him off to Paris, where, for a spell, he was an actor, before heading south to the Mediterranean where he worked as a marine archaeologist. Minns was a colourful character, bursting with charm, wit and showmanship, but with great empathy, too, for people from all walks of life. He was, his family has said, a "one-man party".

From France, he crossed the Atlantic to work for Gulf Oil where he enjoyed American life for a time. Back in London, and temperamentally unsuited to the corporate world and office politics, Minns took to restoring antiques before setting up Steam Age, a shop in Cadogan Gardens, with Ivan Scott in 1965, followed by Jonathan Minns Steam in Hollywood Road, Fulham, where he could often be seen at the wheel of the Little Gem, a favourite traction engine that, while a transport of delight, was not ideally suited to London traffic. At the same time, he worked for Christie's, where he founded the auctioneer's steam model and mechanical antiquities sale.

His father's love of steam boats, mills and pumping stations encouraged Minns to restore multiple mills – he owned and lovingly restored a watermill for 30 years – and boats too, owning 3 over his lifetime including firebird a beautiful steam launch

Minns brought joy into many lives while playing a key role in promoting the history, archaeology and conservation of engineering and steam technology. As he told the Guardian in 2006, when the British Engineerium appeared to have closed for good: "In every other profession, in art, in law, in medicine, in architecture, students are taught the history of the discipline, they understand that the past informs the present. But not in engineering, where the past is seen as irrelevant stuff, an embarrassment." Living his entertaining life at full throttle, Minns made it both highly relevant and utterly compelling.



2

1

A LATE 19TH CENTURY TURRET CLOCK MOVEMENT

Hawley & Co, 123 Regent Street,
The architectural gothic style frame pierced with lancets and quatrefoils finished in a matt black painted surface, united by four baluster pillars, signed on a silvered minute dial to the front, the twin train movement with all arbors set in brass bushes, with deadbeat escapement and rack strike 13 1/2 ins (35cm) high.

£500 - 800
€690 - 1,100

2

AN 18TH CENTURY WEIGHT DRIVEN TURRET CLOCK MOVEMENT

signed on the brass hand-setting dial 'Repaired by John Briant, Hertford, 1798,'

The four uprights of the rectangular iron frame with shaped detailing and scrolled terminals, twin wooden barrels driving a deadbeat escapement and outside countwheel strike, the fly with shaped vanes. 27 ins (68cm) high.

£1,500 - 2,000
€2,100 - 2,700

Literature

Loomes: 'Watchmakers and Clockmakers of the World', 2006.

John Briant was born in Exning, Suffolk in 1748 and was working in Hertford by the time he was 30. He is also listed as a bell-founder and died in 1829.



1



3

3
AN OAK FRAMED TURRET CLOCK MOVEMENT, AND TWO TURRET CLOCK DIALS

The flat clock frame of pegged construction with iron strengthening bars, the wooden barrels wound via capstan-type handles, the three-wheel going train now with deadbeat escapement, the strike train with countwheel strike and large shaped fly, together with a 19th century copper turret clock dial measuring 24" in diameter and painted in light blue with gilt star numeral markers and gilt fleur de lys hands (distressed) and another copper dial 42" in diameter with painted Roman numerals and minute markers, the hands with counter-weighted motion work and a lead-off arbor behind. (3)

£600 - 800
€820 - 1,100



4

4
AN 18TH CENTURY WEIGHT-DRIVEN SPIT JACK

With scrolled, wrought-iron frame, the 6" barrel complete with rope and stone weight to shaped and polished steel arbors terminating in a four-armed fly on an endless screw.

£300 - 500
€410 - 690



5

5
WATCHMAKER'S LATHE, LATE 19TH CENTURY,

In brass and steel with ebony handles and mounted on later wooden stand, 16 in (41cm) long

£600 - 800
€820 - 1,100

6
A P. REGNARD OF PARIS MODEL OF A STITCHING TREADLE,

Cast steel work top mounted on four tapering legs, rear mounted horseshoe arm with mounted stitching rod and similar underneath, foot treadle and hand operated ball weighted lever, solid flywheels to rear operating rod and bar mechanism, mounted on a wooden base with plaque 'P.Regnard, 53, Rue Bayen, PARIS, PLANS EN RELIEF, MODELES EN REDUCTION', 21 3/4 ins (55cm) long, 17 ins (43cm) high, 13 1/2 ins (34cm) wide.

£400 - 600
€550 - 820



6



7



9



10

7

A MODEL MARINE ENGINE, HORIZONTALLY OPPOSED, TWIN SINGLE-ACTING, CIRCA 1920,

The cast iron cylinders approximately 0.5"bore x 0.75" stroke are mounted on an aluminium crankcase and incorporate cylinder end valvechests. Four sprung poppet valves are driven by a crankcase camshaft, mounted over the crankshaft and the crankcase is fitted with a knurled filler plug/breather. The crankshaft carries a disc flywheel at the aft end and a six-to-one ratio shrouded gear-driven boiler feedpump with valves. Oak plinth. 5 ins (13cm) high x 6 ins (15cm) wide

£150 - 200

€210 - 270

8

FOUR VACUUM CLEANERS,

including an 'Everybody's', a 'Star', a 'Good Housekeeper', and a 'Baby Daisy', together with a patent wash pump, (5)

£100 - 150

€140 - 210

9

A MODEL OF THE TWIN MASTED POND YACHT 'TERMAGANT', CIRCA 1900,

Painted black above and yellow below waterline, gaff-rigged with complement of the linen sails, on stand. 43 ins (110cm) long

£600 - 900

€820 - 1,200

10

AN IMPORTANT MODEL OF A THAMES WATERMAN'S WHERRY,

Hull of varnished timber, clinker construction with internal ribs, stiffened with an internal strake. Raised saxeboard, fitted with six rowlocks, two pairs amidships and one stroke and bow (filled). A raised bow deck/boarding step and two internal floorboards with painted chequer pattern. Two rowing thwarts and stern backrest support, no backrest or passenger seating, or rudder survives. 15 1/2 ins (40cm) long x 4 1/2 ins (11cm) wide x 2 ins (6cm) high

£600 - 900

€820 - 1,200

A very rare example of the universal Thames passenger carrier until the 19th century. Possibly an apprentice piece, the plumb stern and broad beam for the customer seating, plus the long raked bow to allow stepping ashore dry-shod, are all distinctive. Often worked by one man, the additional rowlocks would enable extra oarsmen to be boarded if a long passage, or a speedy trip were demanded.



8



11



11

11

AN INTERESTING VICTORIAN EXPERIMENTAL PROPULSION MODEL,

Hull carved from hollowed timber, with clipper bow and elliptical stern. Varnished decks with inscribed plank lines. Sections of the deck remove to reveal a complex compound clockwork motor in brass and steel which drives a pair of propeller shafts, each fitted with two, twin blade propellers. Bearing an old acquisition mark on the keel 1861-6. On a stand. Hull: 35 1/2 ins (91cm) long x 6 1/2 ins (17cm) wide x 5 ins (13cm) high

£3,500 - 4,500

€4,800 - 6,200

Great advances were made in the design of the screw propeller in the mid 19th century, with the Iron steamship *Great Britain* of 1843 being fitted with a large six blade unit for her transatlantic crossing. The advent of higher speed engines, and especially the steam turbine required smaller diameter propellers and designers experimented with multiple units on each shaft to accommodate the loss of thrust and the problems of cavitation. Charles Parsons famed *Turbinia* of 1894 was fitted with similar multi-propeller shafts.

12

A MODEL OF AN EDWARDIAN STEAM LAUNCH 'TOGO',

Hull of timber, pinned plank on frame, varnished to the waterline and pink below, with clipper bow and elliptical stern. Fitted with bilge keels, a single, three blade brass propeller on a long shaft and a split rudder. Varnished timber decks with inscribed plank lines, vertically beaded timber lining to fore and aft cockpits. Central engine space, with brass grilled skylight, coal store and brass steering wheel. Fittings include brass fairleads, cleats, flag sockets and stern rails. Fitted with shaft and log tube, but no motor. 52 1/2 ins (133cm) long x 10 1/2 ins (27cm) wide, 7 1/2 (19cm) high

£3,500 - 4,500

€4,800 - 6,200



12



11



13



15



14



16

13

A COLLECTION OF THREE CASED SHIP'S LOGS, BY THOMAS WALKER,

Comprising: an *Excelsior* IV patent log. Reading to 100nm. Complete with log instrument, rotator, spinner and line, tow line. With oil can. A *Knotmaster* Mk IIIA, reading to 100nm. With Bakelite instrument, line and two spinners, with oil can. An *Excelsior* Yacht log, reading to 50nm. With instructions, log instrument and rotator, spinner line and deck bracket. (3)

£300 - 500

€410 - 690

14

AN ELECTRIC POND MOTOR CRUISER, KOTIK

Hull from hollowed timber, painted white to the waterline with black rail and four portlights. Maroon below with black boot top, single brass propeller and rudder. Varnished timber deck with detailed skylights and companionway. Fitted with brass stanchions, anchor, windlass, binnacle, ventilators and navigation lamps, folding mast and gaff. Cockpit with gratings and brass wheel geared to wire steering. Deck lifts off to access interior, with battery box and motor mount, no motor. On a stand. 31 ins (82cm) long x 9 ins (23cm) wide x 10 ins (25cm) high

£1,000 - 1,500

€1,400 - 2,100

15

A MODEL OF THE PASSENGER STEAMER SS ORIENT,

Solid hull, painted grey to the waterline and maroon below. Varnished decks and white superstructure with detailed fittings, ship's boars, deck houses and open bridge. Fitted with twin masts and funnels. On a baseboard in a glazed display case. 36 ins (91cm) long x 7 ins (18cm) wide x 15 1/2 ins (39cm) high

£400 - 600

€550 - 820

16

A RNLI PRESENTATION LIFEBOAT MODEL 1864,

of the pulling lifeboat *Tildesley De Bosset*.

Hull from hollowed timber, in RNLI livery of blue/white. Fitted with rudder and steering yoke, the inventory includes rowlocks, oars, spars, sails, boathook and life ring. Mounted on polished brass crutches in a glazed mahogany display case and bearing a silver RNLI dedication plaque to Madame Tildesley De bosset. 33 1/2 ins (85cm) long x 11 ins (28cm) wide x 12 1/2 ins (32cm) high

£2,000 - 3,000

€2,700 - 4,100

It was customary in the 19th century for the Royal National Lifeboat Institution to present a scale model to a benefactor endowing a lifeboat.



17

17

**A BUILDER'S HALF MODEL OF THE MOTOR CRUISING YACHT
MAIKO,**

Hull from solid timber, with straight stem and cruiser stern, painted white to the waterline with gold cavata and three portlights, green below with polished brass propeller and rudder gear. Varnished timber decks with inscribed plank lines and detailing. Fittings include brass guardrails and stanchions, ventilators, skylight and companionway, open bridge with wheel, binnacle and telegraph, ship's boat on chocks. In a glazed metal display case engraved *John I Thornycroft & Co. Ltd.* and bearing an ivory Builder's plaque. 30 1/3 ins (77cm) long x 9 ins (23cm) wide x 4 ins (10cm) high

£4,000 - 6,000
€5,500 - 8,200



18

18

A WATERLINE DIORAMA MODEL OF THE SS HARRY NEVILLE,

Hull from solid timber, painted black to the waterline with red rail, and maroon below. Varnished deck with painted deck houses and scale figures. Varnished wooden spars and single funnel. Set on a moulded, painted sea against a painted backdrop of a coastline. 24 1/2 ins (62cm) long x 12 1/2 ins (32cm) wide x 7 ins (18cm) high

£800 - 1,200
€1,100 - 1,600



20



19

19

A CLOCKWORK POND MODEL OF A PADDLE STEAMER,

Hull from hollowed timber, painted black to the waterline and maroon below, with a white boot top and moveable rudder. Varnished decks with inscribed plank lines, central superstructure removes for access to the brass clockwork motor, driving both paddle wheels. Fitted with twin masts and funnels, on a stand. 31 ins (79cm) long x 8 1/2 ins (22cm) wide x 18 ins (46cm) high

£500 - 700
€690 - 960

20

A VERY FINE MODEL OF A VICTORIAN RACING CUTTER,

Hull of pinned mahogany, plank on frame, with deep, lead ballasted keel and attached rudder on brass pintles, with brass cap and curved tiller. Laid plank deck with removable hatch, skylight and companionway. Fitted with bits, anchor windlass with chain and stowed fisherman's anchor, anchor davit, and barrel winch. Varnished wooden spars, with reefing bowsprit and topmast. All fittings in brass and bearing an engraved brass plaque across the transom marked *Harry Thornton 1888*. On a stand. Hull: 61 1/2 ins (156cm) long x 12 ins (31cm) wide x 16 ins (41cm) high

£5,000 - 7,000
€6,800 - 9,600

21

**A CHROMO-LITHOGRAPH OF THE STEAM AND SAIL SHIP
'CITY OF NEW YORK',**

mounted and framed, 32 1/2 ins (57cm) x 37 1/2 ins (95cm)

£300 - 500
€410 - 690



22



23

22

A MODEL OF THE POND YACHT 'IONE', 20TH CENTURY,

The wooden hull painted white above and turquoise below the waterline, mahogany decking with skylight, gaff-rigged with compliment of linen sails, on stand. 60 ins (153cm) long

£800 - 1,200
€1,100 - 1,600

23

AN UNUSUAL EARLY 19TH CENTURY MODEL OF A FOUR-WHEELED WAGON WITH SINGLE CYLINDER OPERATING GRABBING ARM,

Large single cylinder with side mounted valve chest, hand operated gear lever for operating a forward mounted grab arm with hand operated elevation, the cylinder and works within a brass frame mounted on four wheels (6.5" gauge) which are hand-operated by means of a mounted rear wheel operating gear to rear wheels, 28 1/2in (72.5cm) long including grab arm.

£800 - 1,200
€1,100 - 1,600

24

A MODERN, UNUSED SOLAR-DRIVEN HOT AIR ENGINE, BUILT BY 'SOLAR ENGINES', PHOENIX, ARIZONA, CIRCA 1976,

The engine is of the coaxial design with twin flywheels and anodised treble disc crankshaft with neatly split crankcase. The cylinder has turned cooling fins and hot cylinder at the focal centre of an aluminium parabolic reflector, 18 ins (46cm) diameter

£200 - 250
€270 - 340



25



26

25

A HOUSEHOLD FAN DRIVEN BY HOT AIR ENGINE, BUILT BY JEAN SCHOENNER, CIRCA 1890,

The aluminium, six bladed fan is integrally built with a wire-spoked flywheel, and the crankshaft is suspended by two sets of three spokes supported by a decorated cast iron ring that encircles the flywheel. Both connecting rods are riveted sheet metal and the displacer cylinder has radial cast cooling fins on the entablature. The flame guard is elegantly pierced and has a decorated cast iron plinth with a drawer containing the brass burner and chimney. Finished in black and polished brightwork. 26 ins (66cm) high x 13 1/2 ins (34cm) wide

£2,000 - 3,000
€2,700 - 4,100

26

A MODERN, UNUSED SOLAR-DRIVEN HOT AIR ENGINE, BUILT BY 'SOLAR ENGINES', PHOENIX, ARIZONA, CIRCA 1976,

The engine is of the coaxial design with twin flywheels and anodised treble disc crankshaft with neatly split crankcase. The cylinder has turned cooling fins and hot cylinder at the focal centre of an aluminium parabolic reflector, 18 ins (46cm) diameter

£200 - 250
€270 - 340



27



28



29



30

27

A CO-AXIAL, WATER-COOLED, HOT AIR ENGINE, BY HEINRICI, CIRCA 1900,

The cylinder is 2.5" bore x 2.25" stroke. As with all Heinrici's, twin flywheels are fitted. One with integrally cast single speed pulley wheel. The engine is fitted with copper hopper tank and Heinrici-style ventilated, tapered cast square stand. 30 1/2 ins (78cm) high x 10 1/2 ins (27cm) wide

£1,200 - 1,800
€1,600 - 2,500

28

A SMALL TINPLATE AND BRASS MODEL OF A HOOP'S HOT AIR ENGINE, HOPPER-COOLED, PATENT APPLIED FOR, CIRCA 1875,

A bent crank runs in bearings, soft soldered to the displacer cooling tank extended supports. The crank, connecting rods, working cylinder, 0.825" bore x 1" stroke, and curved spoke flywheel are gunmetal brightwork and the rest in the original Venetian red paint. 10 ins (25cm) high x 7 1/2 ins (19cm) wide

£300 - 400
€410 - 550

29

A KYKO SMALL COMMERCIAL PRIME-MOVER HOT AIR ENGINE, CIRCA 1885,

The finned air-cooled working piston is 2.125" bore x 1" stroke, has a well developed wick oil piston seal and ball socketed connecting rod. The perforated disc crank is bent steel, and runs in ball races in A-frames, as do the working and displacer piston connecting rods. The crankshaft carries a triple diameter pulley wheel with drive-pins. The pulley drives an aluminium cooling fan in an aluminium airducting casting. By using a form of forked side-rod connecting rod the displacement piston rod runs in a long seal. Tapered cast stand. Finished in black and brightwork. 19 ins (48cm) high x 7 ins (18cm) wide

£500 - 800
€690 - 1,100

These engines were relatively sophisticated in their construction with a consequential increase in the power to weight ratio. They were used for a wide variety of purposes including central heating circulating fans, shop window displays and mini pumping units.

30

A 'HEINRICI-STYLE' HOT AIR ENGINE, BY ERNST PLANK, CIRCA 1885,

The hot cylinder is sectioned to expose the brass displacer. The crankshaft is carried in A-frames and the working cylinder is fitted with a screw relief valve. 11 ins (28cm) high x 5 1/2 ins (14cm) wide

£100 - 150
€140 - 210



31



34



32



35



33



36

31

A MODEL COMPRESSOR DRIVEN BY HOT AIR ENGINE, MANUFACTURED IN NUREMBERG, CIRCA 1895 FOR UNKNOWN PURPOSES,

Twin horseshoe frames support horizontally opposed cylinders positioned in an ingeniously 'Heath Robinson' fashion. Offset connecting rods are driven by a balanced crank with lubricators with needle valves. Three spoked pulley wheels allow for a remarkable variation of air delivery. 9 ins (23cm) high x 9 1/2 ins (25cm) long

£60 - 100

€80 - 140

32

A MODEL 'DE LAVAL' STEAM TURBINE, SINGLE-PASS, HIGH-PRESSURE WITH THREE-TRAIN REDUCTION GEARBOX, CIRCA 1895,

The turbine comprises a single runner in the de Laval style, mounted on a shaft running in ball bearings. The turbine casing is held both by its brass bracket and the brass gear casing with its underslung output shaft. 4 1/2 ins (12cm) high x 7 ins (18cm) wide

£200 - 300

€270 - 410

33

A FULL-SIZED ENGINE-ROOM STEAM FEED PUMP, BY TOWARE & COMPANY,

The single cylinder 'Auxiliary' horizontal pump with cylinder of 2" bore x 5" stroke and with pressure dome. 11 ins (28cm) high x 25 ins (64cm) long

£200 - 300

€270 - 410

34

FOUR SPEED INDICATORS,

Comprising; an Elliott in case, Wilhelm Morrell of Leipzig in case, Jones Motrola of Stamford Connecticut in case, and another. (4)

£200 - 300

€270 - 410

35

A MODEL OF A VERTICAL STEAM FEED PUMP, SCRATCH-BUILT, CIRCA 1905,

The cylinder is 1" bore x 1" stroke and supported on four turned columns. The crankshaft is held in bearings supported by twin cross-frame bridging bars and the scotch crank runs between vertical round guides. 7 1/2 ins (19cm) high x 4 1/2 ins (12cm) wide

£100 - 150

€140 - 210

36

A RARE 19TH CENTURY MODEL OF A PROTO-TYPICAL SINGLE CYLINDER HORIZONTAL STEAM FEED PUMP, BY E. GODFREY,

The valve chest is over the cylinder and a transverse semi-rotary valve spindle is actuated by a plug rod attached to the piston rod. Finished in dark green with polished brightwork.

£80 - 100

€110 - 140



37



40



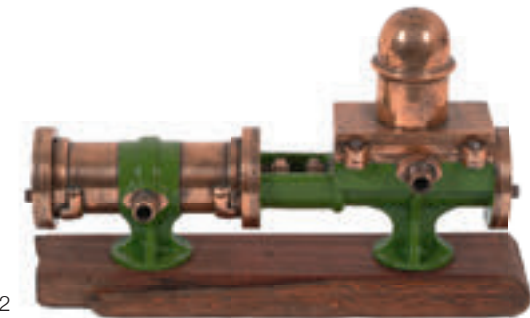
38



41



39



42

37

A FULL-SIZED ENGINE-ROOM STEAM FEED PUMP, BY WOLF,

The single cylinder horizontal 'Auxiliary' pump with cylinder of approximately 1.5" bore x 6" stroke. Valve gear with handle for warming-through. 11 1/2 ins (30cm) high x 27 ins (69cm) wide

£200 - 300
€270 - 410

38

A 'DUPLEX' FULL-SIZED ENGINE-ROOM STEAM FEED PUMP,

No. 13333, The twin cylinder horizontal 'Auxiliary' pump with cylinders approximately 2" bore x 3" stroke. Finished in black. 31 ins (79cm) wide x 14 1/2 ins (37cm) high

£200 - 300
€270 - 410

39

A MODEL HORIZONTAL STEAM FEED PUMP, BY STEVENS MODEL DOCKYARD, CIRCA 1885,

The gunmetal cylinder is fitted with screw glands and eccentric-driven slide valve. The crankshaft is driven by a scotch crank, acting directly on the feed pump plunger. Wooden plinth. 8 ins (21cm) long

£100 - 150
€140 - 210

40

A FULL-SIZED ENGINE-ROOM STEAM FEED PUMP, CIRCA 1910,

No. 115119, The 'Auxiliary' single cylinder horizontal pump complete with cylinder 2.25" bore x 2.5" stroke, with draincocks with machined lugs for use both sides as with the rest of the pump. On top of the cylinder is a semi-rotary valve driven by spindle cams taking movement from the piston rod tappet. The engine and pump are fitted with screw-type gland nuts and the water pump is fitted with drainplugs. Finished in black and polished brightwork. 8 ins (21cm) high x 17 1/2 ins (45cm) long

£200 - 300
€270 - 410

41

A HORIZONTAL STEAM FEED PUMP,

This has the valve chest over and the valve spindle driven by a piston rod plug actuated steam cylinder. Main stop valve and displacement lubricator. Finished in brightwork. 6 ins (15cm) long

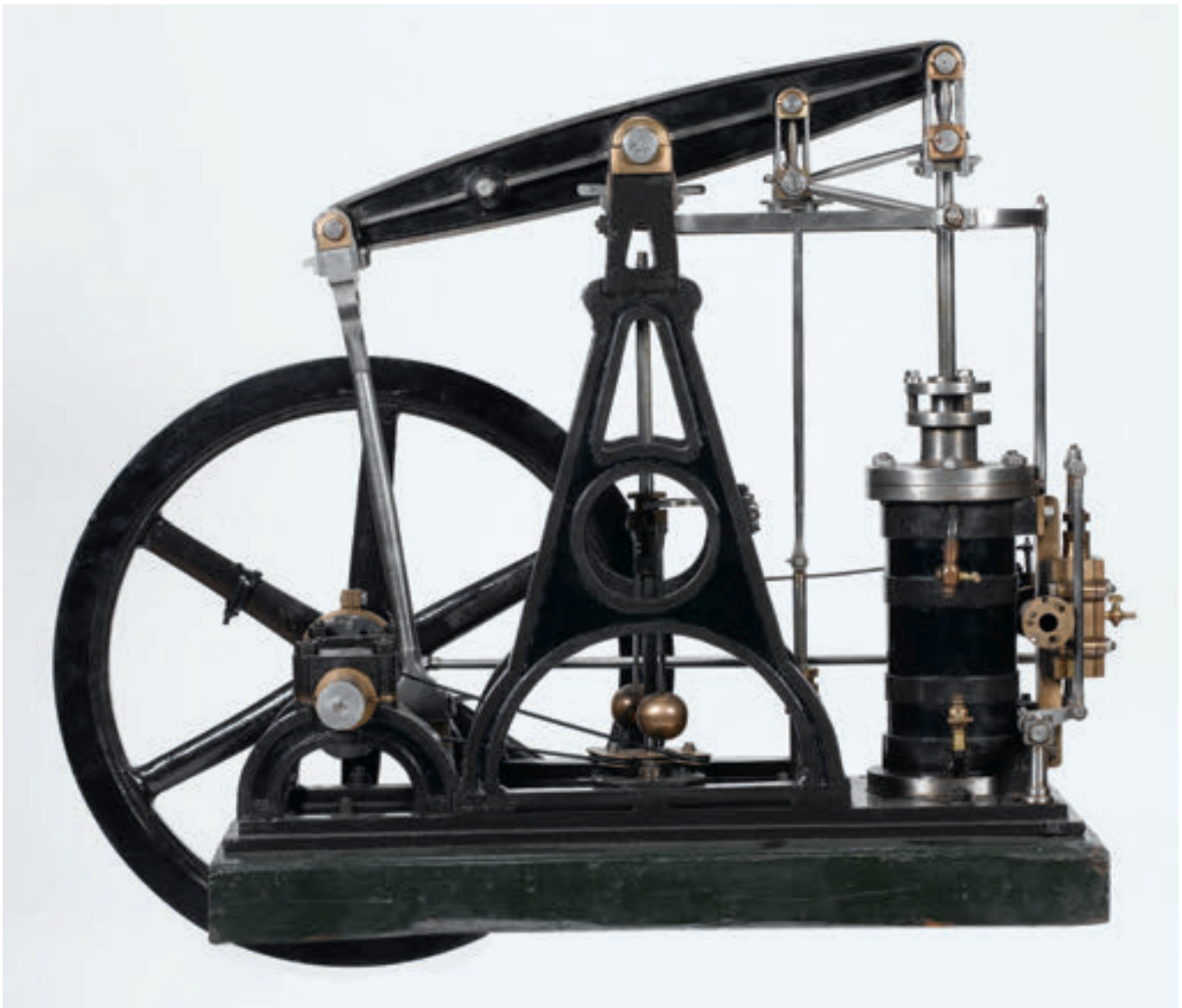
£100 - 150
€140 - 210

42

A MID-19TH CENTURY PATENT MODEL OF A WORTHINGTON STEAM WATER PUMP,

The horizontal pump with automatic internal shuttle valve and decoratively-ribbed pressure dome on the water end. Finished in green with polished brightwork. 5 1/2 ins (13cm) high x 8 1/2 ins (22cm) long

£150 - 200
€210 - 270



43

43

A SMALL, FULL-SIZED 'A'-FRAME BEAM ENGINE, CIRCA 1820,

The single cylinder, of 3" bore x 7.25" stroke, has cast annular ribs and outside bronze valve chest mounted on a separate bronze transfer pipe with governor butterfly valve and draincock. The cylinder is fitted with top and bottom draincocks and is mounted on the cast iron plinth.

The equal parallel motion has forked gib and cottored drop links, barrelled parallel links and anchor links pivoted from the yoke with the outer ends supported on a finely tapered column mounted on the upper cylinder flange. The inner link crosshead is tilted by the parallel links and incorporates a bearing for driving the barrelled and faceted feed pump connecting rod.

The beam is elegantly proportioned and is supported on gudgeon bearing pedestals with gib and cottored straps cast with a common entablature dovetailed into the pierced A-frames. The beam is a rare reversible type designed to be able to compensate for excessive wear at the cylinder end being built with equi-spaced gudgeons along its length allowing for "a quick fix" without disturbing production. Finally the barrelled connecting rod has faceted top and bottom with gib and cottored straps.

The governor is mounted between the A-frames with an adjustable upper spindle needle bearing and the bronze-balled governor arms hang from a suspension yoke and incorporate levers with rounded ends acting in slots of the slipper collar which also incorporates a compensating spring and drives the governor linkage via a cross-shaft mounted in bearings on the edge of the A-frame.

The crankshaft has double tapered webs and is mounted in arched plummer blocks with adjustable shims incorporated between the bearing brasses. It carries a simple eccentric with adjustable lift-off type barrelled connecting rod and a well shaped and proportioned flywheel with oval spokes and decorated inner rim. Decorated wooden plinth. 27 ins (69cm) high x 26 1/2 ins (67cm) wide

£10,000 - 15,000

£14,000 - 21,000



44

44

AN OVERSHOT WATERWHEEL-DRIVEN PUMP, BUILT BY C.L. HETT BRIGG, ENGLISH, CIRCA 1870,

The 36" diameter cast iron waterwheel with crank on pine base, 56 ins (142cm) wide.

£500 - 700

€690 - 960

Restored to the order of Olympus-KMI by The British Engineerium, Hove.

45

A MODEL OF WATERWHEEL, LATE 19TH CENTURY,

The spoked waterwheel with brass water inlet and outlet on oak stand and base. 23 ins (58cm) wide

£300 - 500

€410 - 690



45



46

46

A MODEL OF A CENTRE-PILLAR BEAM ENGINE, CIRCA 1845,

The brass banded, mahogany-lagged single cylinder is 2.5" x 4.625" stroke and is fitted with a screw capped lubricator with valve, draincocks, an outward looking three part valve chest with valve driven by an adjustable lever and lift-off eccentric with cast brass stays and Gothic centre.

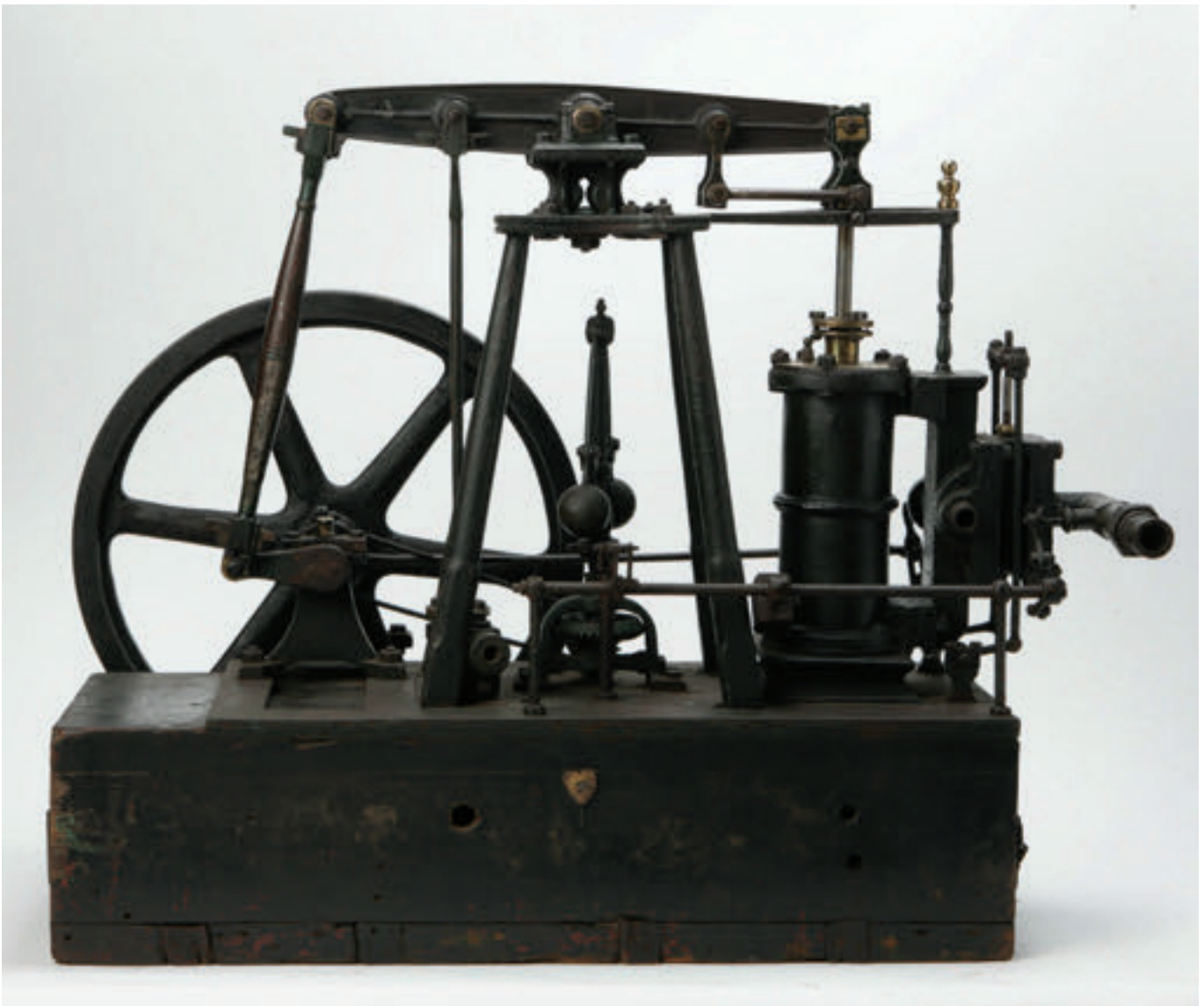
The beam is fitted with oertype parallel motion and gib and cotttered barrelled cruciform connecting rod. It is supported on decorative gudgeon bearings and entablature mounted on a fluted column with decorative top and bottom and square pediment.

The crankshaft runs between four decorative plummer blocks and is fitted with an eccentric-driven feed pump, decorative flywheel with polished rim and brass hub covers.

The base is a series of complex castings with hollow panels and the outside bearing pedestals have mahogany infill panels.

Finished in green and cream with polished brightwork. 31 ins (78cm) high x 28 ins (71cm) wide

£8,000 - 12,000
€11,000 - 16,000



47

47

A SMALL, FULL-SIZED BEAM ENGINE, WITH FOUR PILLARS AND SINGLE CYLINDER, OF THE MATTHEW MURRAY TYPE, CIRCA 1810,

This engine was used to drive machine tools in the Lancashire clock-making industry.

It has a single ribbed cylinder, 2.375" bore x 5" stroke, with gunmetal cylinder cover and cast plinth. The "outside" valve chest is bolted to a separate cast and decorated steam transfer pipe, and incorporates an adjustable valve spindle driven from weighshaft links and shaft, in turn driven through an adjustable stroke hand lever, single push-rod and eccentric.

The cast beam is driven by equal parallel motion with its anchor links fixed to an entablature yoke, supported on a decoratively turned column with brass finial. The main gudgeon bearings are supported on decorative T-section pillars, in turn supported by typical Murray angled columns with faceted bases. A Watt type governor sits on the well detailed pedestal which incorporates both a spoked bevel gear wheel and the inner driveshaft bearing. The lower governor slipper ring drives a weighshaft and levers connected to an adjustable governor butterfly valve.

On the outer end of the beam a positive displacement feed pump is driven by a tapered connecting rod with gib and cottered upper yoke and the gib and cottered main connecting rod is barrelled with a knop at the upper end. The flywheel is turned for a belt and the main bearings are supported on cast A-frames. The engine has a simple flat cast bed mounted on a wooden box-plinth with hinged doors for access at both ends and a small brass heart of personal significance. *27 1/2 ins (70cm) high x 33 ins (84cm) long*

£6,000 - 9,000
€8,200 - 12,000



48

48

A SMALL, FULL-SIZED GRASSHOPPER TWIN BEAM ENGINE, CIRCA 1865,

This finely-engineered beam engine has a cylinder of 3.25" bore x 5.625" stroke, twin annular ribs, decorated cover and stuffing box glands. The steam passage supports an outward facing double expansion valve chest above, two delicate T-section curved brackets supporting the primary and secondary valve lateral drive-shafts with their twin barrelled connecting rods. Elegantly shaped hand levers and cranks with lift-off rectangular section push-rods are linked to the valve spindle crossheads.

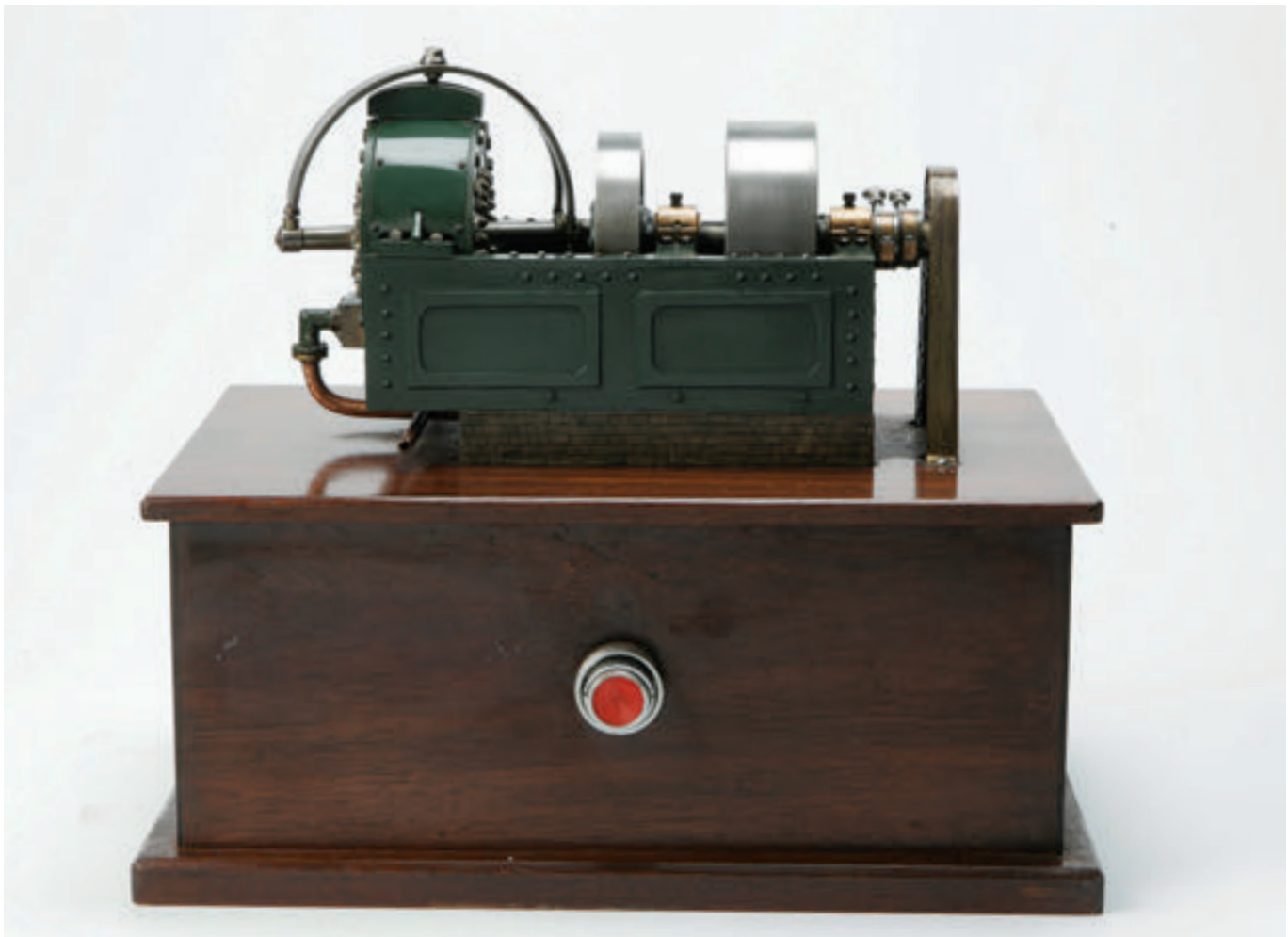
Vertical A-frames fixed to the bed and upper cylinder flange provide fixed supports for the anchor links which are both barrelled and cottered. The beam gudgeon bearings for the piston, connecting, pump and rocking rods are elegantly shaped with rounded edges. The same design is carried through to the main crankshaft and rocker rod tail-head plummer blocks.

The crankshaft incorporates square webs, solid eccentric sheave and well proportioned H-section rim cast flywheel, typical from 1850 onwards.

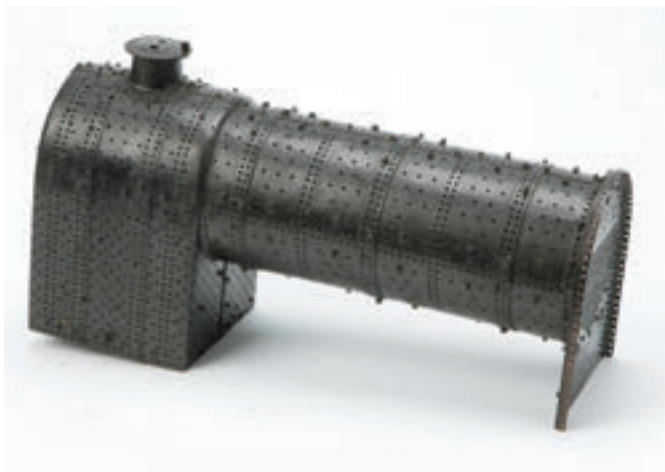
A centrally mounted feedpump is of turned gunmetal with beaded annular ribs and decorative gland.

The engine is finished in green with polished brightwork and robustly shaped oak plinth with mouldings. *24 ins high (61cm) x 28 ins (73cm) long*

£6,000 - 8,000
€8,200 - 11,000



49



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A MODEL OF A BISSHOP'S ROTARY SWASH-PLATE ENGINE,

The swash-plate is stiffened by a curved brace and runs in ball joints with seals on either side of the casing. The swash-plate driving disc is also fitted with a ball joint and drives the main flywheel. Mahogany plinth with electric motor drive and brass cased chain. *Approx 8 1/2 ins (22cm) high x 12 1/2 ins (32cm) wide*

£1,500 - 2,000

€2,100 - 2,700

The original was reputedly built to drive "The Times" newspaper printing presses, circa 1860.

50

A BOILER-MAKERS MODEL OF A LOCOMOTIVE BOILER, WITH 209 FIRE-TUBES, SHOWN PRIOR TO RIVETING, MADE CIRCA 1865,

The shell is double plated with lapping plates on all joints and they are held together by boilermaker's taper cotttered pins. The firebox is gold plated to signify copper construction and the foundation ring is of the "S" type. There is no fire-hole ring. Finally a Hawthorn Lesley-type dome is pierced for twin-lever-type safety valves, and the whole outside is japanned and wax polished.

6 1/2 ins (16cm) high x 12 ins (31cm) long

£1,000 - 1,500

€1,400 - 2,100



51

51

A CONTEMPORARY MODEL OF A FOUR-PILLAR STEEPLE ENGINE, BUILT IN WESTMORLAND, CIRCA 1820,

The gunmetal single cylinder is 1.5" bore x 3.75" stroke and has two annular webs and decorations to both cylinder flanges and inside valve chest. The gib and cotttered connecting rod drives a well-formed pear crank via a crosshead with gunmetal slippers and decoratively cast vertical guides with barrelled stay and four turned and decorated columns screwed to the entablature. The crankshaft runs in gunmetal plummer blocks mounted on the entablature and a single tapered rear column. There is also an eccentric with webbed strap. The flywheel has six oval spokes and webbed rim. Moulded cast iron base. Finished in black and polished brightwork. 21 ins (53cm) high x 12 1/2 ins (32cm) wide

£3,000 - 5,000

€4,100 - 6,800

52

AN INVERTED SINGLE CYLINDER VERTICAL STEAM ENGINE,

Top mounted cast cylinder block, housed pistons and side mounted solid flywheel, on wooden base, 9 ins (23cm) long x 5 ins (12.5cm) wide x 12 1/4ins (31cm) high

£150 - 250

€210 - 340



52



53

53

AN EARLY SMALL, FULL-SIZED VERTICAL FOUR-PILLAR ENGINE, BUILT CIRCA 1840 TO DRIVE A COFFEE MILL IN THE CITY OF LONDON,

The cylinder, 2.5" bore x 5" stroke, has decorated flanges and integrally-cast steam passage carrying the three-way split and decorated valve chest also bolted to the bed. The cylinder cover has decorative turning, long square nuts, lubricating plug and square gland nut. The piston rod drives a cross-head running in round guides fixed to the cylinder flange and entablature. The connecting rod is barrelled with strapped gib and cotttered big-end.

The crankshaft has waisted cranks, hollow cast eccentric sheave driving the valve spindle via drop links and a weighshaft with lift-off system. The flywheel is a delightfully crude four-spoke casting with rectangular section un-machined rim.

The plinth has decorative mouldings, checker-plate base, with exhaust and draincock passages. It supports four fluted columns with well proportioned feet and capitals, a delicately moulded entablature and elegant main bearing supports and plummer blocks.

Finished in its original black paint. 36 ins (92cm) high x 16 1/2 ins (42cm) long

£3,000 - 5,000
€4,100 - 6,800

The engine has a great deal of intricate decorative architectural detailing.

54

54

A MODEL OF A VERTICAL, TWIN TRIPLE EXPANSION, GENERATING ENGINE, BUILT BY IT'S INVENTOR SIR WILLIAM WRESTLER, CIRCA 1885,

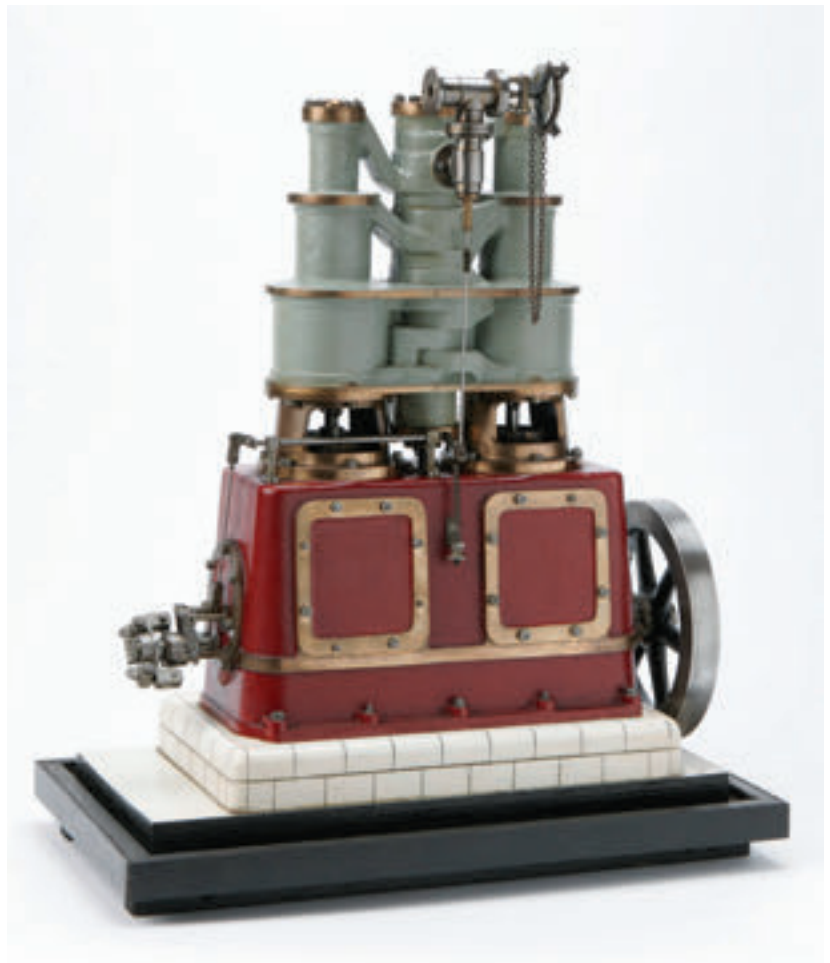
This scientifically important, Patent Exhibition model of a gunmetal high speed, enclosed, twin triple expansion, single acting generating engine is fitted with a main stop valve with continuous chain control, a vertical piston governor valve with spring adjustments and external high speed shaft governor, gland access, crankcase inspection doors and disc flywheel.

The advantage of this particular system was that the steam passed through a central piston valve from one side of the engine to the other and back, and the cranks were set accordingly. Although the cylinders and valve chest, which are cast in one, require the genius of a brilliant pattern maker and foundryman, such skills were completely available to them. Note the incredible complexity of the steam transfer passages and resultant core work.

The nearest equivalents were perhaps the better known engines made by Willans. The system had fewer internal parts than it's Willans cousin.

Simulated glazed brick plinth on wooden base. Finished in grey and red with polished brightwork. 16 1/2 ins (42cm) high x 14 ins (54cm) long

£2,000 - 3,000
€2,700 - 4,100





56

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A PATENT MODEL OF A VERTICAL STEAM FEED PUMP, SINGLE CYLINDER, 'WEIR' TYPE, STAMPED ON VALVE CHEST WITH "LION" AUTOMATIC VALVE GEAR, 1948,

The cylinder, 1.5" bore x 2.75" stroke, is fitted with draincocks, blued-steel cladding and the valve chest has both main stop cock and lubricator. The valve is driven by an adjustable link passing through a cross-head drive rocking lever and the pump has twin valve chests and air pressure dome on the delivery side. 15 ins (38cm) high x 3 1/2 ins (9cm) long

£300 - 500
€410 - 690

56

A MODEL TWIN CYLINDER VERTICAL ENGINE,

The fixed cylinder 1.5" bore x 3" stroke has a single polished annular rib, screwed gland and cylinder mounted cross-head guide bars. It is fitted with a barrelled gib and cottred connecting rod, and valve gear driven within a cast D-section chest via a rocking lever, supported between slotted and turned columns and barrelled eccentric connecting rod.

The oscillating cylinder has a valve chest of the single-piece type mounted on an annular D-section steam passage rib. The valve is driven from a cylinder cover mounted layshaft with the driven lever working in a radiused slotted link incorporated in the eccentric linking rod.

The crankshaft incorporates waisted T-section cast cranks, pierced oscillating eccentric sheave, central flywheel with H-section cast spokes and machined faces and crown carried on extremely fine bridged 'Egyptianesque' columns, mounted on a multi-part cast bed with raised, scalloped, polished panels and edges.

The outer trunnion bearing pedestal of the oscillating cylinder has been mounted on an extended section of the base, which tends to suggest that the oscillating cylinder was an afterthought apprentice challenge, so to speak. The general styling strongly suggests the work of Musgrave between 1840 and 1850.

Finished in pale green with polished brightwork and oak plinth. 18 1/2 ins (48cm) high x 19 ins (48cm) long

£6,000 - 8,000
€8,200 - 11,000

Probably made by apprentices for exhibition purposes, given that it consists of one fixed cylinder and an oscillating cylinder, which was subsequently added to the design.



56



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57

57

A FOUR PILLAR VERTICAL MODEL ENGINE, WITH WATT'S PARALLEL MOTION, CONSTRUCTED AND PRESENTED BY E. JEKYLL, (LATE OF THE GRENADE GUARDS),

The gunmetal, japanned cylinder, 1.75" bore x 3" stroke, has a single beaded annular web, and the steam passage is a separate casting which carries both inlet and exhaust pipes and valve chest. The piston rod drives a three-bearing link with straps, gibs and cotters (one missing). The top and bottom of the links are connected to forked anchor links pivoting on brackets suspended beneath the entablature. The connecting rod has gunmetal ends with a faceted strap, gib and cotter at the big-end.

The crankshaft has a waisted crank, gunmetal governor pulley, eccentric with gunmetal connecting rod, 'Maudslay-style' over-rimmed flywheel and four part wooden pulley wheel.

The bed is fixed to simulated brick and stone base with belt slots and is furnished with a feed pump driven from the right hand side anchor link. Elegantly turned columns support a well shaped and decorated entablature with a gunmetal governor, jockey pulley and pierced main bearings.

Finished in black with polished brightwork. 33 ins (83cm) high x 18 ins (45cm) wide

£8,000 - 12,000
€11,000 - 16,000

This layout was first used in the coal mines of Northumbria in the early part of the 19th. Century. It was built by Jekyll in the 1870's.

58

A SMALL, FULL-SIZED VERTICAL 'A-FRAME' ENGINE, BUILT BY MESSRS H. O. AND A. ROBINSON, MILWALL WORKS, LONDON, 1846,

The gunmetal cylinder is 3" bore x 6" stroke and has two rectangular section annular webs and integrally cast steam passage. The valve chest is cast in one and valve adjustment is achieved by adjusting the length of the eccentric connecting rod.

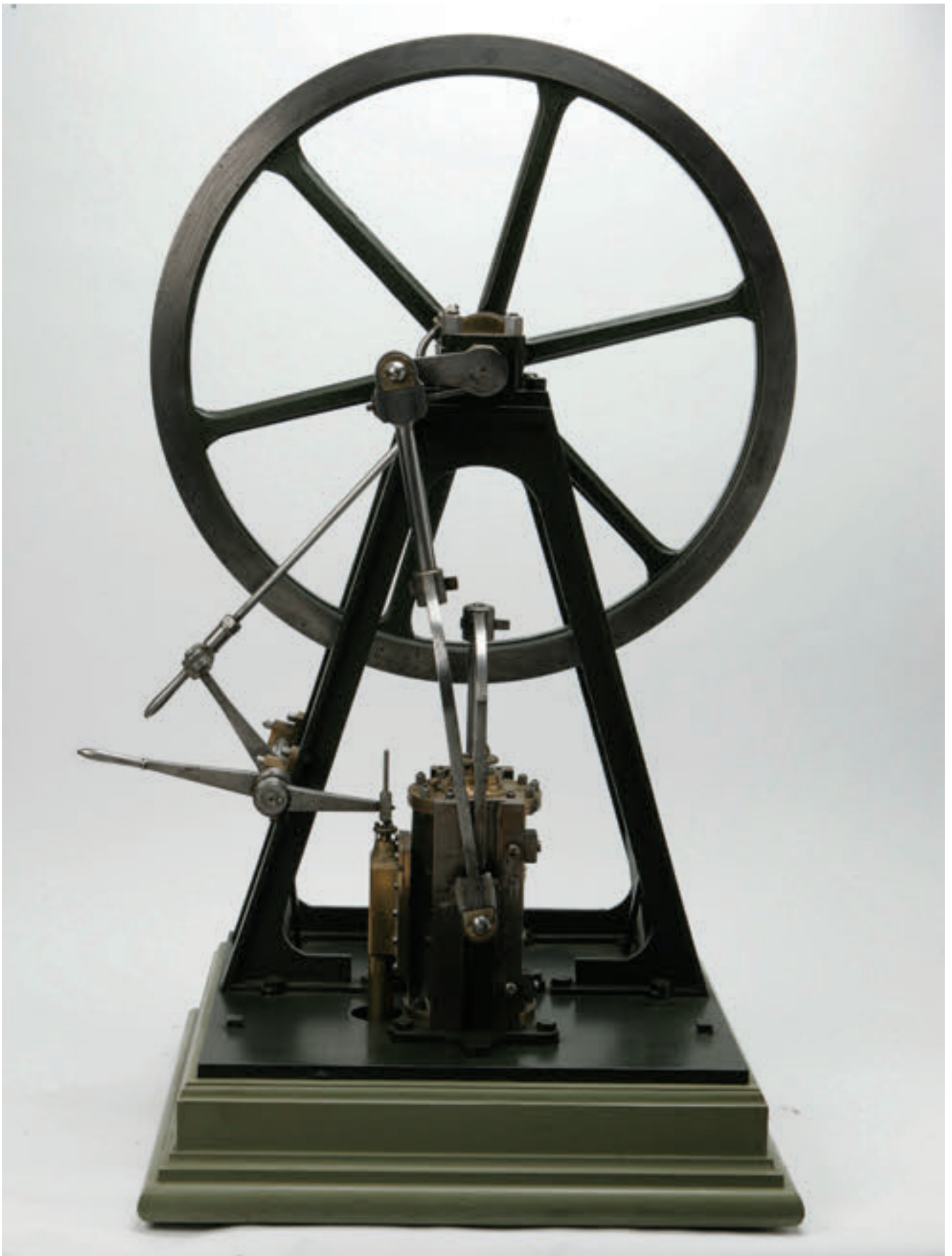
Bolted to the cast iron bed are two vertical dovetail guides which are adjustable for wear. The piston rod carries a one-piece forked return rod fixed by cotter pin. These rods carry the slippers and the gib and cotters strapped little-ends of the forked connecting rod. The big end is also strapped and fitted with gib and cotters.

The crankshaft carries a waisted crank with cotters crankpin, and it runs in split bearings with hexagonal cheeks and stepped bearing caps. There is a gunmetal eccentric sheave, driving wrought iron eccentric straps with turned and forged yoke lift-off type eccentric connecting rod, transmitting movement to the valve via a weighshaft with hand lever. The elegantly spoked and turned flywheel has a fully machined rim. The T-section A-frames differ in that the outside frame is complete across the bottom and the inside one is cut to accommodate the three fixings of the inner guide.

Finished in deep bronze green with polished brightwork. Wooden plinth. 38 1/2 ins (98cm) high x 32 1/2 ins (83cm) long

£10,000 - 15,000
€14,000 - 21,000

It is the only known example of their work to survive. It was discovered in a small jobbing workshop in St Austell, Cornwall where it drove a treadle lathe.





59



61



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62

59

A SMALL, FULL-SIZED 'A-FRAME' VERTICAL ENGINE, CIRCA 1860,

The engine is fitted with a single vertical cylinder of 2.25" bore x 3.5" stroke and with moulded cast crosshead and guides, barrelled gib and cottred connecting rod, necked and recessed crank, direct gear-driven 'Watt-type' governor, well proportioned flywheel with rim relief and spoked pulley wheel. Finished in green, Venetian red and brightwork. 26 ins (66cm) high x 10 ins (25cm) long

£5,000 - 7,000
€6,800 - 9,600

60

A LOWNE'S PATENT ATMOSPHERIC SUCTION-FLAME ENGINE,

This rare horizontal engine has twin cylinders set in a cooling tank. They project out of the cooling tank into two vertical flame chimneys. Sprung adjustable connecting rods actuate flap valves and take their motion from the piston gudgeon pins via rocking levers. The cylinders carry single bar-type guides and the connecting rods issuing from the hollow pistons drive the balanced 180 degree crank. The pistons are sealed by sprung glands and packing. 10 1/2 in (26cm) high x 18 ins (46cm) long

£800 - 1,200
€1,100 - 1,600

61

A GERMAN MODEL HORIZONTAL HOT AIR ENGINE, CIRCA 1895,

This robustly-constructed model is built to imperial dimensions. The working cylinder with air screw is approximately 1.125" bore x 1.5" stroke and is arranged parallel to the displacer piston on 3" centres. Cast brass fluted tapered connecting rods work to and from disc cranks. A cam has been added to the working side and grooved pulley on the displacer side. Cast frame with two fixing holes and oil tray (partially modified). Finished in red and green. 6 ins (15cm) high x 12 1/2 ins (32cm) wide

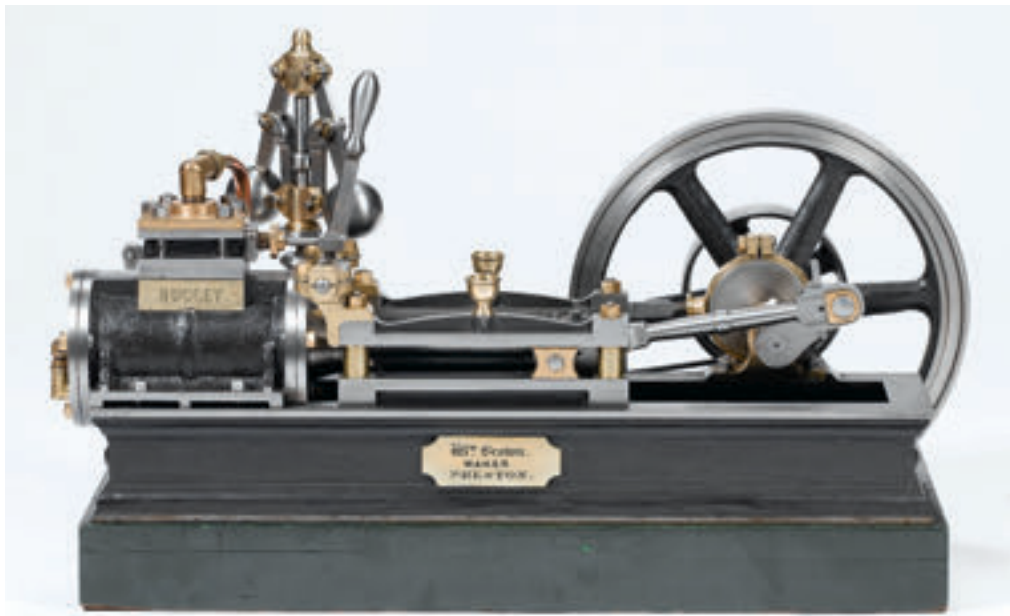
£150 - 200
€210 - 270

62

A BING TINPLATE HORIZONTAL HOT AIR ENGINE, CIRCA 1930,

With lithographed tinplate floor, black hot cylinder chimney and spoked flywheel, 8 1/2 ins (21cm) high x 9 ins (23cm) long

£120 - 150
€170 - 210



65

63

**A TWIN CYLINDER HORIZONTAL DUPLEX ENGINE ROOM
AUXILIARY FEED PUMP, BY WORTHINGTON SIMPSON
NEWARK ENGLAND,**

No. 5050458, 31 ins (79cm) long.

£200 - 300

€270 - 410

64

**A TWIN CYLINDER HORIZONTAL DUPLEX ENGINE ROOM
AUXILIARY FEED PUMP**

No. 44512, with cylinders approximately 2" bore x 3" stroke. Finished in green. 11 3/4 ins (30cm) high x 27 1/2 ins (70cm) long

£200 - 300

€270 - 410

65

**A SMALL, FULL-SIZED, SINGLE CYLINDER HORIZONTAL
ENGINE "NUGGET", BUILT BY WILLIAM BROWN, TO DRIVE
MACHINE TOOLS VIA LINE SHAFTING, PRESTON, CIRCA 1850,**

The cylinder, 3" bore x 4.5" stroke, has rectangular section annular webs and integrally cast cylinder support brackets designed for minimum heat loss into the bedframe. The steam passage is arranged on the top of the cylinder and carries a two-part valve chest with hexagon gland nut, driven via a laterally mounted weighshaft with turned handle and lift-off rectangular section barrelled central connecting rod.

The piston rod cross-head has slippers running in oil grooves in cast iron guide bars, with turned brass pillars and lubricating cups. The barrelled, decorated and faceted forked connecting rod has gib and cotter strap big and little ends. The crankshaft has a cast T-section crank keyed to it, a solid large diameter eccentric sheave, three speed pulley to the separately mounted governor, relatively small flywheel and crowned pulley wheel supported on an external A-frame pedestal.

The governor is robustly constructed yet highly decorative and is fitted with a sizeable butterfly valve and linkage. The cast iron engine bed has fine decorative detailing, is polished on top and carries the engraved maker's plate. Wooden plinth. 15 ins (38cm) high x 24 ins (61cm) long

£4,000 - 6,000

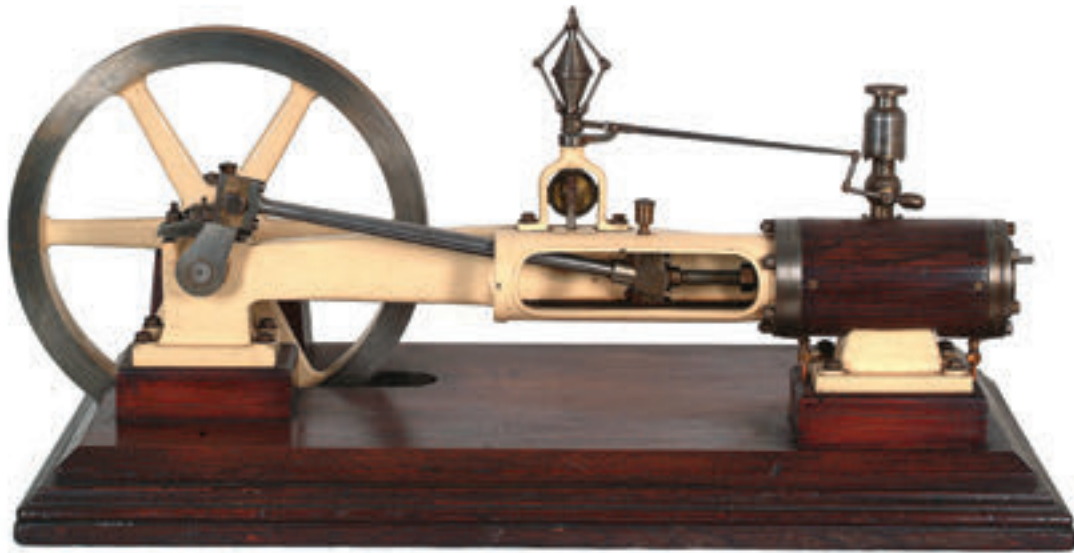
€5,500 - 8,200



63



64



68



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66

A STUART MODEL HORIZONTAL MILL ENGINE, BUILT BY STUART, CIRCA 1920,

Finished in Stuart black with polished brightwork, 4 ins (10cm) high x 8 1/2 ins (22cm) wide

£150 - 200

€210 - 270

67

A DIS-ASSEMBLED MODEL OF A HORIZONTAL MILL ENGINE, UTILISING PARTS FROM STEVEN'S MODEL DOCKYARD AND OTHER CASTINGS, BY A.W. NICHOLS, CIRCA 1880,

The cylinder is 0.75" bore x 1.5" stroke, 5 ins (13cm) high x 10 1/2 ins (27cm) wide



67

67

A MODEL OF A SINGLE CYLINDER, HORIZONTAL 'BAYONET FRAME' MILL ENGINE, CIRCA 1880,

The mahogany lagged cylinder is 2.5" bore x 5" stroke, with integrally cast cylinder foot and single piece valve chest and draincocks. The expansion valve gear is driven by twin eccentrics. The pinned crosshead stands vertically in the trunk guide and the forked barrelled connecting rod has split bearings with steel keep-plate, driving a recessed well formed crank with the flywheel end supported on a pedestal bearing.

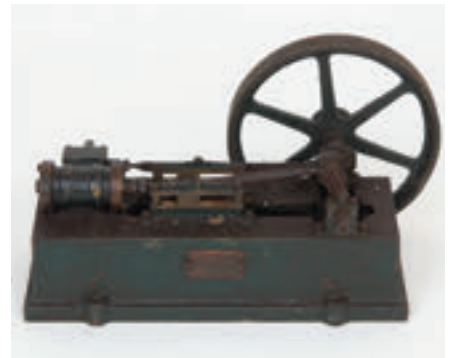
A Porter governor stands on its arch on the frame and is belt-driven by a two-to-one ratio pulley wheels and a two-to-one bevel gear train with lubricated shaft.

Four-times engine speed means fast revolution of the governor weights against the urn-like counterweight. This caused little hunting and in this case, drives a governor butterfly valve with counterbalanced lever, actuated by a long pivoted rocking lever reachrod and short barrelled connecting rod.

Finished in cream and brightwork. Moulded mahogany plinth. 13 1/2 ins (34cm) high x 32 ins (81cm) wide

£2,000 - 3,000

€2,700 - 4,100



69

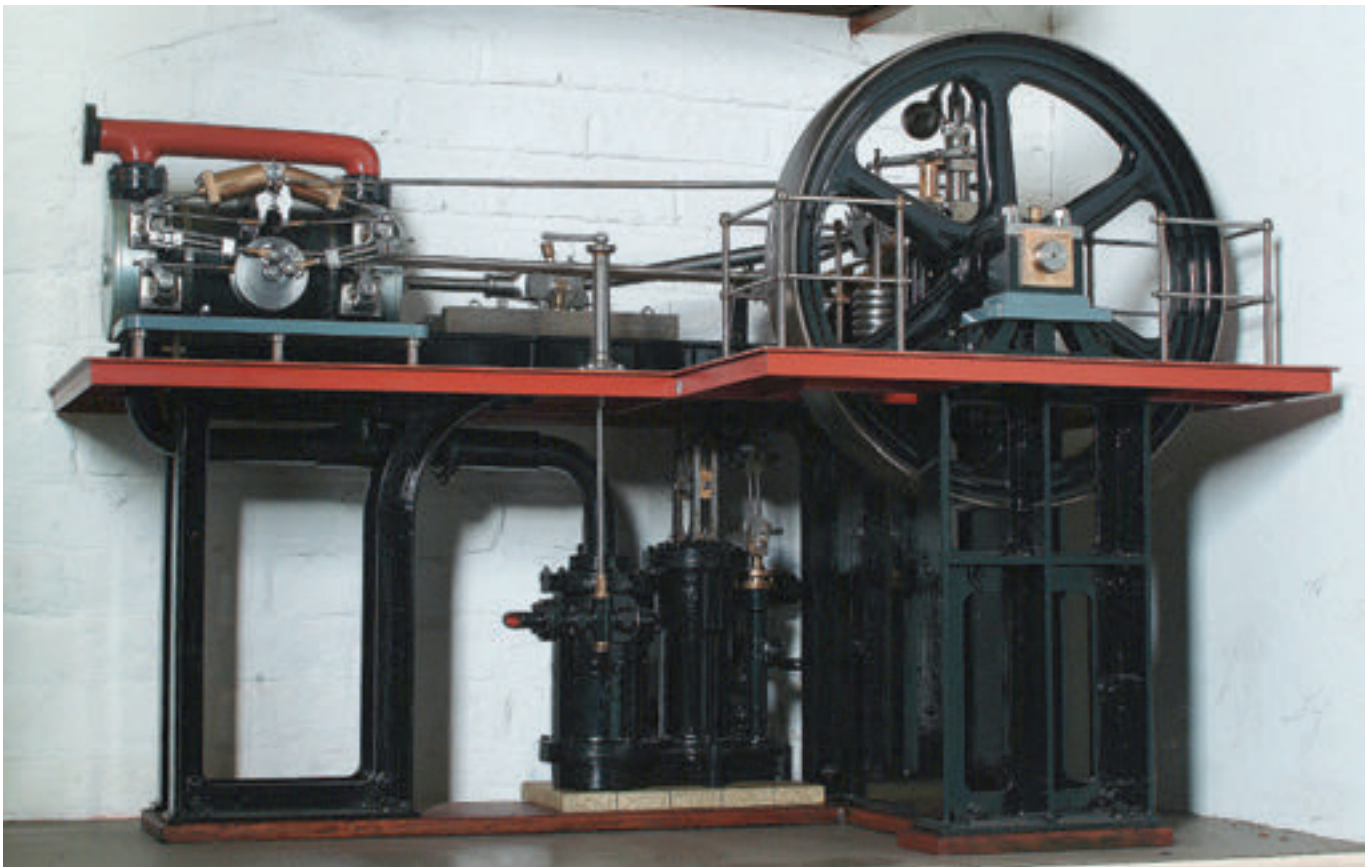
69

A MODEL OF A SINGLE CYLINDER HORIZONTAL MILL ENGINE, BUILT BY W. STEVEN'S MODEL DOCKYARD, 2 OLDGATE, LONDON, CIRCA 1880,

The engine is fitted with a gunmetal cylinder 0.75" bore x 1" stroke and the crankshaft carries a twin pulley system, all mounted on a shaped cast iron bed with maker's brass plate. 5 1/2 ins (15cm) high x 10 1/2 ins (37cm) wide

£200 - 300

€270 - 410



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70

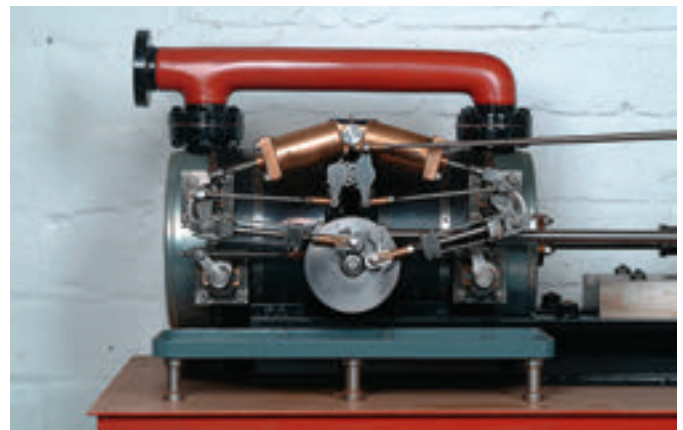
A MODEL OF A CORLISS HORIZONTAL, JET CONDENSING MILL ENGINE, BASED ON THE ORIGINAL BY MESSRS. HICK, HARGREAVES AND COMPANY, BOLTON, 1980'S,

The blue-steel clad cylinder is approximately 3.75" bore x 6" stroke. The valve gear is a brilliant example of a perfectly detailed Corliss valve gear known as the Inglis and Spencer slip rod trip gear. The inlet and outlet valves are driven by separate eccentrics and wrist-plates. Both the eccentric pushrods, inlet sliprods and exhaust connecting rods, are minutely adjustable and are fitted with gib and cotter strapped wrist-plate ends with square locking grub screws for each cotter. The spring clips are opened by toe levers with adjustable connecting rods and symmetrically geared quadrants moved by the governor action. In addition, the inlet valves are fitted with rare pivoted dashpots.

The piston is cotted to a forked crosshead with separate slipper and oil scrapers running in a cast iron tray with end reservoirs and top bar guides with lubricators.

The connecting rod is adjusted at the crosshead end with a keep-plate and at the big end with a screw-operated gib and drives a well shaped crank with valve eccentrics, lubricators, governor bridge and 'one and a quarter to one' bevel gears. A return connecting rod with strapped gib and cotted ends drives the air and feedpump bellcrank.

The feedpump is fitted with two gib and cotted connecting rods and the airpump crosshead runs between vertical shaped cast guides connected to the bellcrank, via closed strap connecting rods with double gib and cotter bearing adjustment. The jet condenser is part of the pump bed casting and is fitted with an injection valve, controlled from a turned tapered pedestal and lever on the engine floor above. The governor is fitted with counterbalance weights and oil dashpot for controlling the engine speed and the bellcranks actuate the control rod through springs designed to absorb agitation caused by the springs with their leather pads.



70

The floor carries guard rails and the engine bed with its oil splashguard, which is carried on a series of T and angle section cast iron frames, numbering 7 in all.

Finished in black and brightwork with mahogany plinth. 31 ins (79cm) high x 42 ins (115cm) wide

£10,000 - 15,000
€14,000 - 21,000

This model was built by Belfast University Engineering students in 1923.



71

71

A FRENCH TABLE ENGINE, BUILT BY EUG BOURDON, CIRCA 1850,

The cylinder is 2" bore x 4.25" stroke, and has two beaded annular webs, decorative cylinder cover with waisted gland and eye-bolts. The valve chest cover incorporates the butterfly valve and the hand valve is flange mounted. The valve spindle is driven by cross and tail-head with connecting rods pivoted at the top and fixed at the bottom.

The eccentric is centrally mounted and has a lift-off connecting rod which drives a bell-crank with hand lever. The shaped main cross-head wheel guides are supported on four turned cast iron columns with square pedestals. There are three lateral barrelled spacing pillars with square centre sections, such that the top and bottom (valve chest side) support a brass-balled 'Watt style' governor with horizontal shaft and bevel gears.

The governor drive is carried via two jockey pulleys down to the three different diameter crankshaft pulley wheels. The twin-throw crankshaft carries a beautifully shaped S-spoke flywheel with fully turned and faced rim. It has a cast iron bed with raised machined surfaces and mahogany plinth. 27 1/2 ins (70cm) high x 19 1/2 ins (49cm) long

£8,000 - 12,000
€11,000 - 16,000

(Eug Bourdon, 1808-1884)

72

AN IMPORTANT MODEL OF A FOUR PILLAR TABLE ENGINE, ENGRAVED "RICHARD TREVITHICK 1802", The single cylinder is 1" bore x 1.5" stroke, has beaded annular ribs, top and bottom cylinder flange mouldings, and cylinder cover-mounted cross-head guidebars with a barrelled spacing pillar. The elegantly shaped cross-head drives barrelled connecting rods with faceted ends and gib and cotter big-end straps.

The gunmetal table is supported on four tapered turned columns as are the crankshaft bearings, and the twin-throw faceted crankshaft carries a relatively crude flywheel with cruciform section spokes. The valve is driven by a typical table-top-mounted weighshaft with adjustable stroke hand lever and lift-off eccentric with rectangular connecting rod. The engraved bed is mounted on a moulded mahogany plinth and naturally finished patinated brightwork. 13 ins (33cm) high x 5 3/4 ins (15cm) long

£6,000 - 9,000
€8,200 - 12,000

Richard Trevithick 1771-1831 was a brilliant Cornish engineer and innovator, mine captain and traveller. Amongst his many inventions was the first steam carriage, the high pressure steam engine which rivalled Watts' engines in size and power and the "Pen-y-daren" steam locomotive of 1804. The locomotive was fitted with a horizontal cylinder and the piston rod cross-head was connected to the crankshaft by return connecting rods.

Beam engines necessarily were as long as the centre of the cylinder to the centre of half the diameter of the flywheel, with outward facing valve chests adding further length. This intrusion into often small places was improved by the advent of the grasshopper beam engine which incorporated the flywheel such that it did not protrude beyond the bed. Table engines were a very elegant solution where the cylinder was mounted on a table and the crankshaft directly below was either a twin-throw or single-throw type, with tail-heads.

The table engine is said to have been invented by Henry Maudslay in 1807, however, two Trevithick table engines are known, namely this one dated 1802 and another slightly larger and with a cast Gothic frame dated 1803.





73

73

A SMALL, FULL-SIZED FOUR-PILLAR TABLE ENGINE, BUILT BY W. CORNELIUS, ENGINEER OF CHARD, CIRCA 1840,

The cylinder of 1.75" bore x 3.25" stroke, has a singular D-section annular web, is mahogany lagged and has a valve chest cast-in-one, making adjustment difficult. Both the cylinder and valve chest glands have cuts for C spanners, the cross-head guides are turned from the solid and incorporate milled slots with raised faces for the gunmetal die blocks. An arched pillar is held on top of them by threaded finials.

The table is supported on four elegantly tapered and barrelled pairs of cast columns which also support the crankshaft bearing arches, themselves arched in the opposite sense to that at the top of the engine.

The twin-throw crankshaft has square webs driven by the gib and cotter barrelled connecting rods, and further carries a crowned four-spoke flywheel with turned hub and four-spoked pulley wheel. A centrally mounted eccentric sheave drives a bed-mounted rocking lever carrying motion to the single piece valve-chest valve spindle connecting rod.

Finished in grey with polished brightwork, oak plinth and engraved maker's plate on the valve chest. *24 1/2 ins (62cm) high x 14 ins (35cm) wide*

£3,000 - 5,000

€4,100 - 6,800

Cornelius had a small rural workshop and was often employed by Stringfellow in his various steam aviation exploits.

74

AN EARLY, SMALL, FULL-SIZED TABLE ENGINE, CIRCA 1810,

This detailed engine, of 'Gothic' style, has a single cylinder of 2.25" bore x 4.5" stroke, has two D-section annular ribs and the cylinder cover incorporates a waisted gland retained by eye-bolts with square nuts and finial ends. The crosshead is retained on the piston rod by an acorn knob, bar-type guides with threaded bottoms secured into the cylinder flange using filed flats, then flanged hexagonal nuts which both retain the cover and give strength to the guidebars

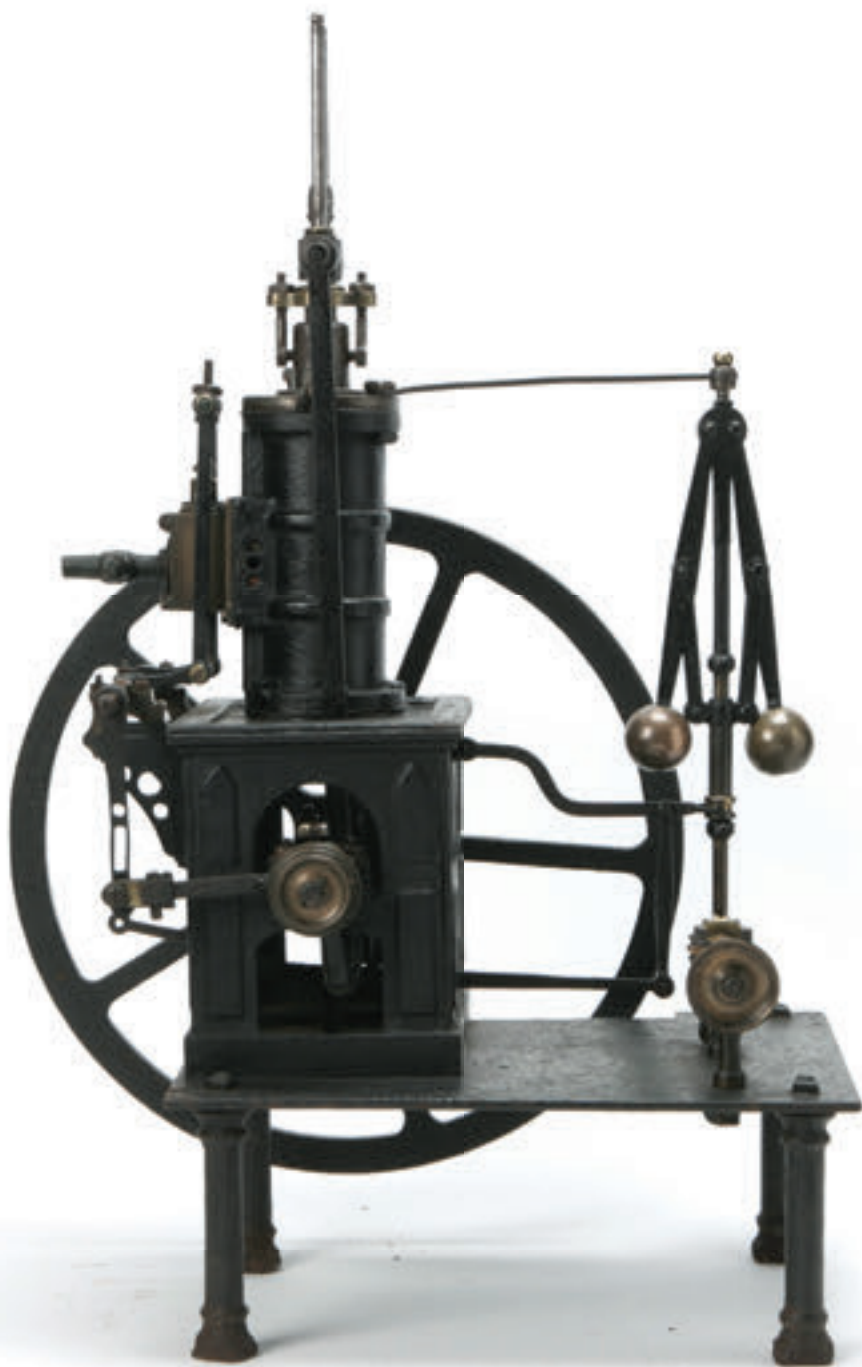
The valve chest includes a plug-type governor valve and a repetition of both gland and cross-head. The main and valve connecting rods are flat section and the valve gear motion is carried on a square transverse shaft supported by decorative brackets; it is powered by an adjustable eccentric push-rod lever. The crankshaft sits within the 'Gothic' frame with the bearings supported on bridges cast-in-one with the end castings. It has three governor pulley diameters, is square in section and drives an elegant square section flywheel.

The engine speed is regulated by a 'Watt style' governor with brass balls, top support from cylinder cover, upward looking bevel gear with onion base and adjustable needle bearing, all driven by a horizontal shaft with three different diameter pulleys to match those on the crankshaft. The governor actuating rod is pivoted from the bed and the vertical rod and plug cock lever are missing.

The bed is supported on decorative cast iron columns with square nuts. *31 ins (78cm) high x 20 1/2 ins (52cm) long*

£6,000 - 9,000

€8,200 - 12,000



74



75

75

AN INVERTED VERTICAL MODEL OSCILLATING ENGINE, CONSTRUCTED AND PRESENTED BY E. JEKYLL (LATE OF THE GRENADE GUARDS),

Made in gunmetal, the cylinder is 1.5" bore x 3" stroke, and has beaded annular webs, decorative cylinder flange mouldings and valve gear incorporated within the trunnion movement. The trunnions are supported on twin pierced C-section arched A-frames which straddle a square crankshaft with mahogany pulley and six-spoked, rough cast flywheel. Wooden plinth with painted brickwork, stone quoins and engraved maker's plate. 19 ins (50cm) high x 13 ins (33cm) wide

£4,000 - 6,000
€5,500 - 8,200

76

A MODEL TABLE ENGINE, CIRCA 1820,

A classically architectural table engine incorporating many parts associated with the styling of Maudslay Son and Field, circa 1820. It was designed with a grooved flywheel and could well have been used in exhibitions to drive exhibits.

The cylinder, 2.75" bore x 4.25" stroke, has twin annular webs, decorative end mouldings and finely turned cover. The gland is waisted and retained by eye-bolts and the valve chest is split in three ways with

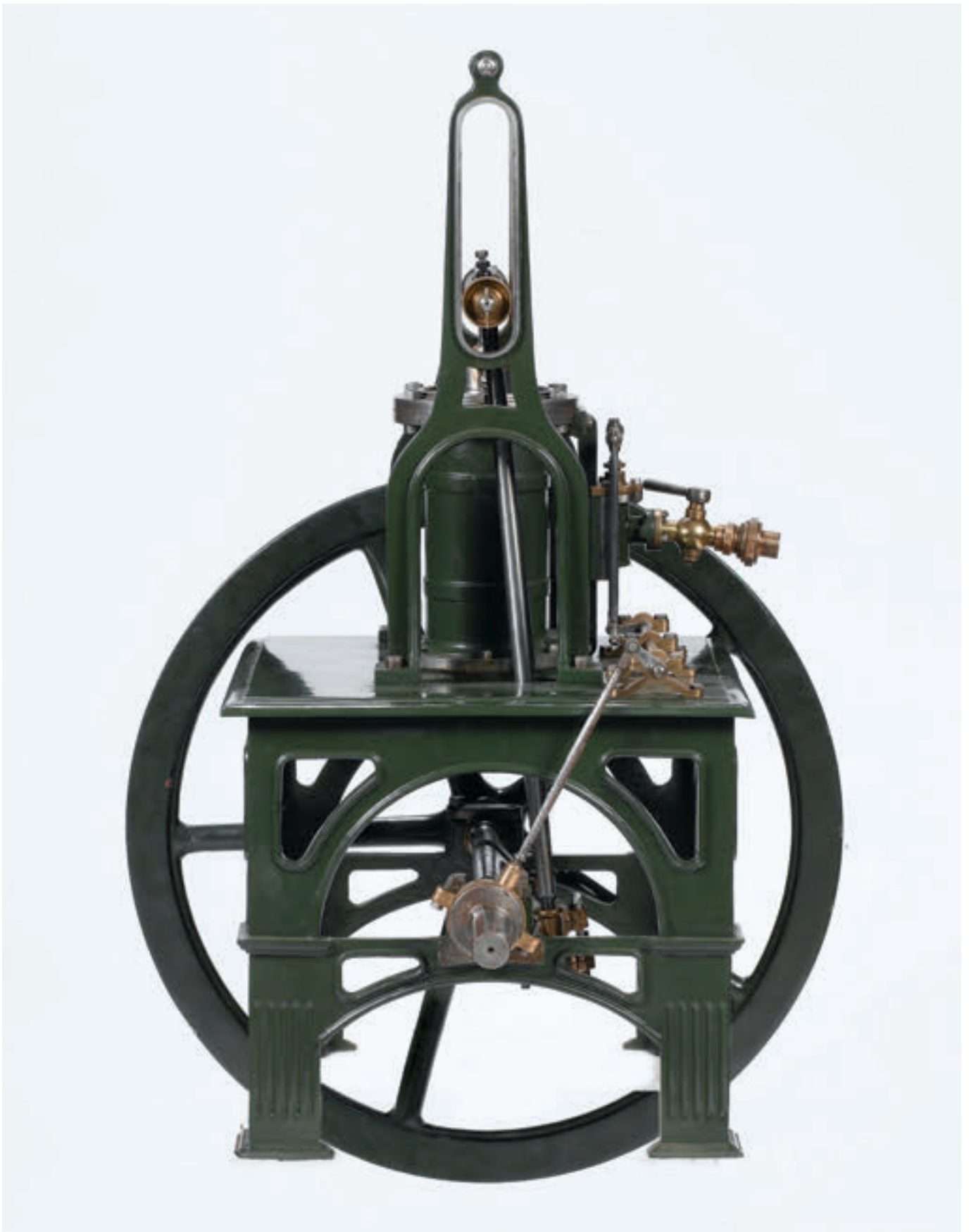
a semi-circular carved chest body and cast steam transfer pipe with exhaust outlet flange. The cross-head and barrelled connecting rod top-ends and guide wheels are pure Maudslay, as is the styling of the guides and main table.

Other distinctive Maudslay details include the valve rocking shaft bearings, tapered crankshaft webs with faceted outer edges and rounded ends. Again, the connecting rod big-ends are textbook Maudslay as are the delicate pierced plummer block ridges and bevelled table frame corners. 31 1/2 ins (80cm) high x 21 ins (53cm) long

£7,000 - 10,000
€9,600 - 14,000

Henry Maudslay (1771-1831) is generally recognised to have had the finest and most delicate design sense of any engineer of the early part of the early nineteenth century.

We know this because of the many beautiful models of the company's work at the Museum of Science and Industry in London. Maudslay had them built by the apprentices, for training, exhibiting and indeed, for recording the innovative development of the company's products. In general, 19th century models often followed this tradition and use.





77

77

A MODEL OF A SINGLE CYLINDER TABLE ENGINE, CIRCA 1820,

The cylinder, 4" bore x 4.5" stroke, is cast with two annular webs and integrally cast valve chest flanges and capstan screw gland nut. The three section "D"-shaped full length valve chest carries a hollow truncated D slide-valve, driven by a crosshead, twin flat section barrelled connecting rods and pierced eccentric pushrod with twin hand levers. The governor valve and exhaust flanges are part of the valve chest and the governor is fitted with linkage and table brackets taking the drive from the 'Watt-type' governor. Flat sectioned barrelled connecting rods are driven by a crosshead with guidebar wheels and have gib and cottored strapped big ends driving the twin throw crankshaft. The table is carried on square fluted columns. The four sides are cast separately, bevelled together and have channel section corner piercings and bearing arches. A feed pump is driven via a 'Scotch' crank and roller crankpin mounted on a dovetailed stroke-adjustment slot on the disc crank. Finished in dark green. Polished brightwork. 28 ins (72cm) high x 15 ins (38cm) wide

£7,000 - 10,000

€9,600 - 14,000

78

A SMALL, FULL-SIZED "PENDULOUS" OSCILLATING ENGINE, CONSTRUCTED AND PRESENTED BY E JEKYLL ESQ, LATE GRENADIER GUARDS AND FATHER OF THE WORLD FAMOUS ENGLISH GARDENER GERTRUDE JEKYLL,

The cylinder is 1.5" bore x 4.5" stroke, has a single D-section annular web and steam passage incorporated in the casting with a three-way slip valve chest, with the valve spindle cross-head driven by barrelled anchor links pivoted from the cylinder gudgeon bearings. Turned, tapered, decorated columns are supported from the cast iron bed on elegant cast bridges and the crankshaft runs in integrally cast plummer blocks with gunmetal lower and upper bearings. The crank is waisted and the shaft carries a central flywheel with cruciform spokes, fully machined faces and crown. (There would have been a pulley wheel). Polished mahogany plinth and engraved maker's plate. 24 ins (61cm) high x 21 ins (53cm) long

£15,000 - 20,000

€21,000 - 27,000





79

79

A FINE AND RARE MODEL OF A TWIN CYLINDER PADDLE STEAMER ENGINE BY MAUDSLAY & SON OF CIRCA 1840,

Brass bound twin rocking cylinders with mounted valve chests, the crank shaft supported in trunnions mounted on circular braced A-frames, with end mounted large 15.5" spoked flywheel, the whole mounted on a mahogany base. 12 1/2 ins (31cm) long x 15 1/2 ins (40cm) wide x 19 ins (48cm) high

£15,000 - 20,000

€21,000 - 27,000

Henry Maudslay (1771-1831) is generally recognised to have had the finest and most delicate design sense of any engineer of the early part of 19th century. Being commissioned from Rio de Janeiro to Istanbul he marked a new direction in the industrial world. We know this because of the many beautiful models of the company's work at the Museum of Science and Industry in London, one of which is a replica of this oscillating engine model made by J. Spiller of Battersea, c.1820.

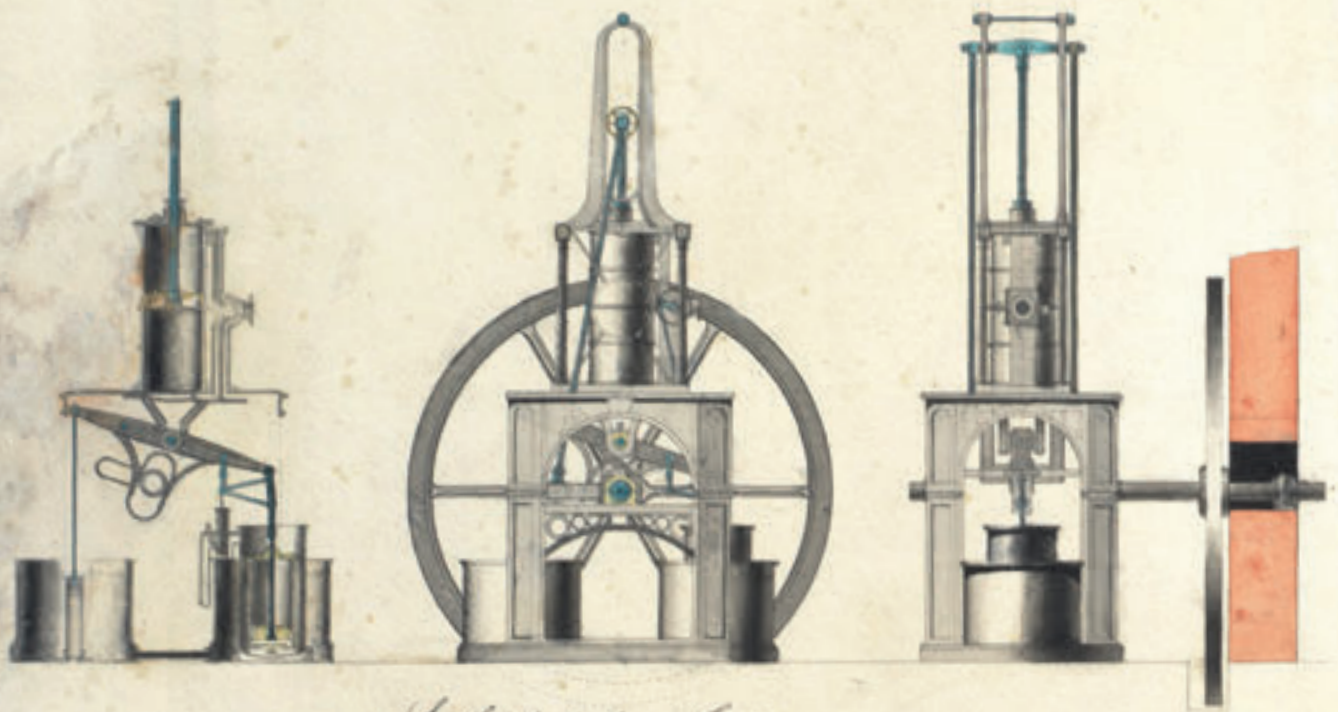
In 1827, Maudslay built the first patented oscillating engine. Designed to achieve further reductions in engine size and weight, the engine cylinders were not immobile as usually seen in most engines, but pivoted back and forth as the crankshaft rotated in an oscillating motion.

It is thought an oscillating engine such as what this model is based on was used on Brunel's SS Great Western of 1837, the first steamship purpose-built for crossing the Atlantic. Here the diagonal oscillating engines were placed in the bottom of the ship below the paddleshaft and drove it directly from the piston rod with no connecting rod.

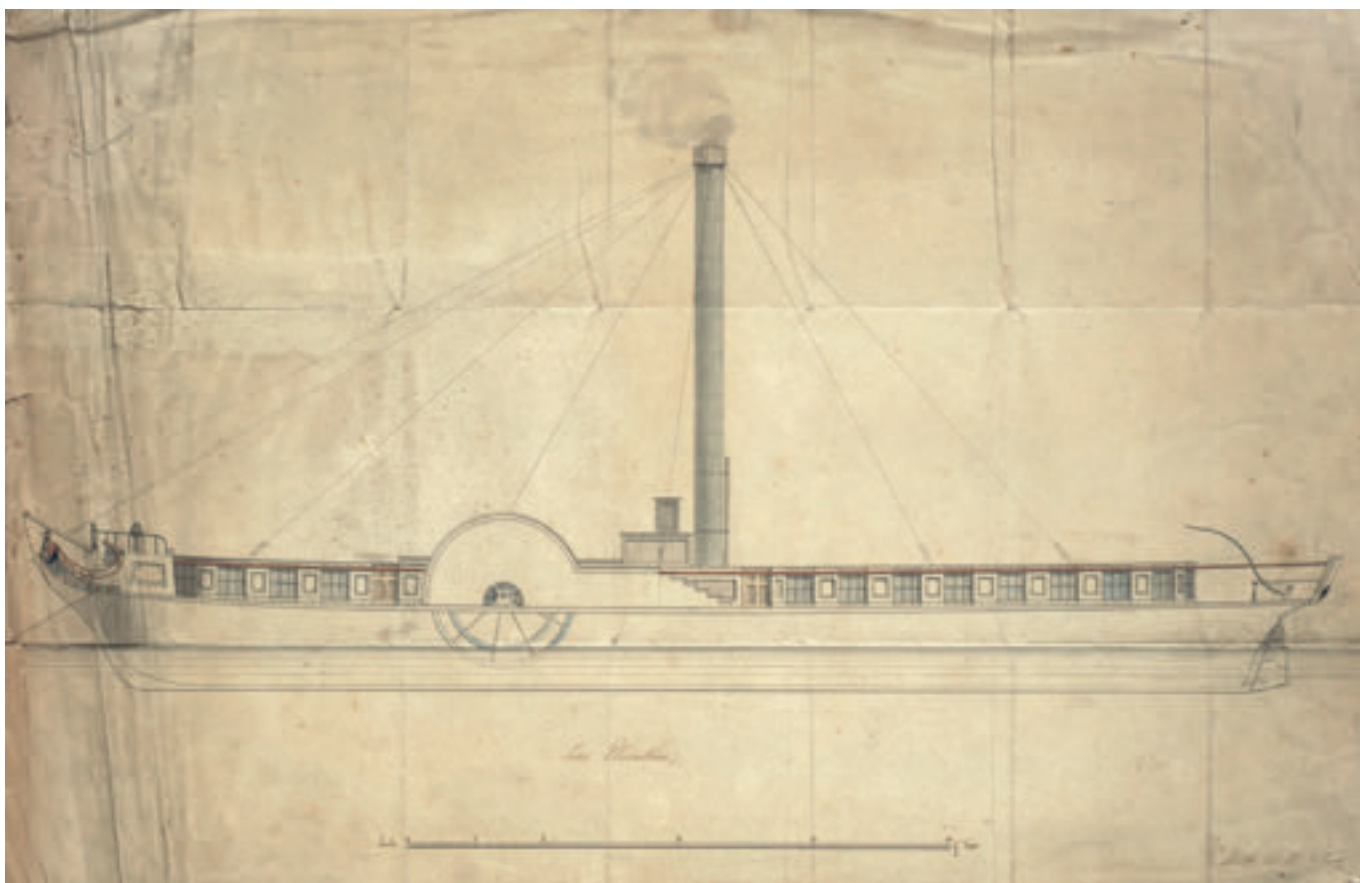
Maudslay had these models built by the apprentices, for training, exhibiting and indeed, for recording the innovative development of the company's products. They were a popular type of marine engine and in general, 19th century models often followed this tradition and use. The highly polished appearance of this model illustrates the pride he took over his work.

Literature: Inkster, 'History of Technology', Vol 25, p 192.

*Maudslays VI Horse Engine
With Crane*



Scale $\frac{1}{2}$ inch = 1 Foot



80

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PORTFOLIO OF THIRTY-ONE ENGINEERING DRAWINGS, BY THE FAMOUS SCOTTISH ENGINEER CHARLES BAIRD AND OTHERS, 1800-1850,

including, ink and wash designs for various projects in Russia and Europe including a windmill, blast furnace, the Russian paddle steamer 'Hukuma', a dockyard quay, a horizontal beam engine, a 4-horse engine, a paddle steamer signed *D. Scott archt. Glasgow 1818*, a 20-horse engine in glasshouse St. Petersburg dated 1809, and a Maudslay 6-horse engine with crane. *Various sizes, the largest 23 ins (58cm) x 29 ins (74cm)* (31)

£4,000 - 6,000

€5,500 - 8,200

Charles Baird (1766–1843) born in Bothkenner, Scotland, was the son of Nicol Baird, superintendent of the Forth and Clyde Great Canal. From a poor family, Charles studied at Edinburgh University, and in 1782 became apprenticed to the Carron Company which produced guns and traded with Russia. By 1785 Charles Baird was in sole charge of the casting and finishing of guns, and in 1786 accompanied the director to St Petersburg when the Russian government invited the company to establish a cannon foundry there.

The Baird Works or Iron Foundry, became famous for its order and efficiency, so much so that the Baird name became part of a phrase in Russian; 'As at the Baird Works,' roughly translating as 'everything is in apple-pie order'.

In a document dated 18th February 1811 and signed by Alexander I, Charles Baird was accepted as a Russian subject and decorated for his work in the mechanical field. On the 9th September 1815, in a document signed by D. Gurev he was decorated again, this time for construction machinery which he supplied to the St Petersburg mint and for helping the Perm Mining Administration. In August 1834

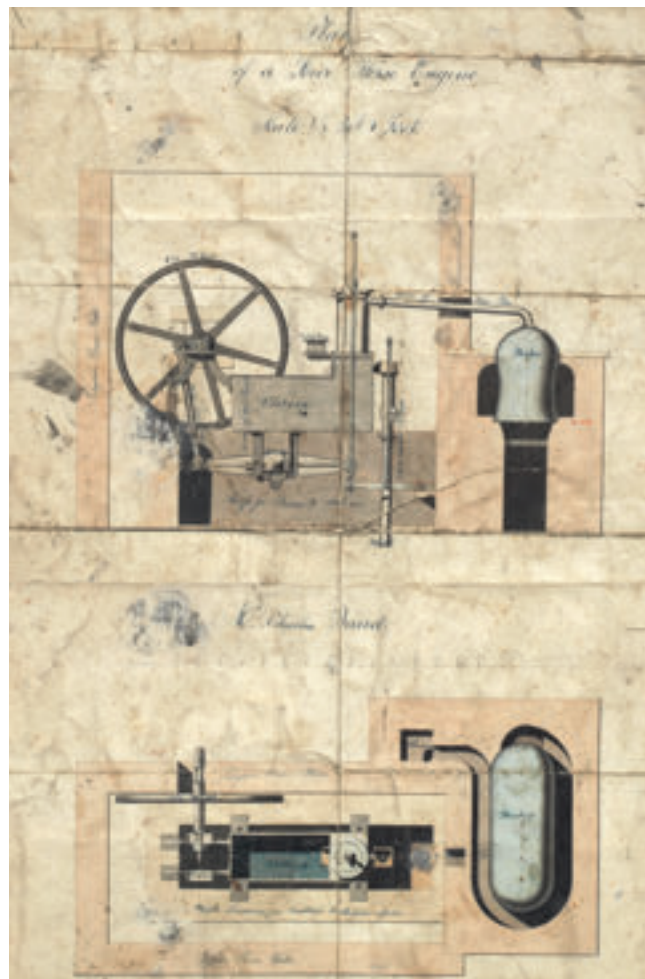
Nicholas I gave him the Order of St Vladimir 3rd class, for making the angel at the top and the bas-reliefs at the base of the Alexander column outside the Winter Palace, and in August 1839 he gave him another decoration for his contribution to manufacturing industry.

A typescript produced by the museum of the 'Admiralty Dockyard' which today covers the area of the 19th century Baird Works, states that the Bairds produced manufacturing and building equipment: stoves for sugar refineries, equipment for mills, fireplaces, doors, dampers for stoves, irons, tableware.

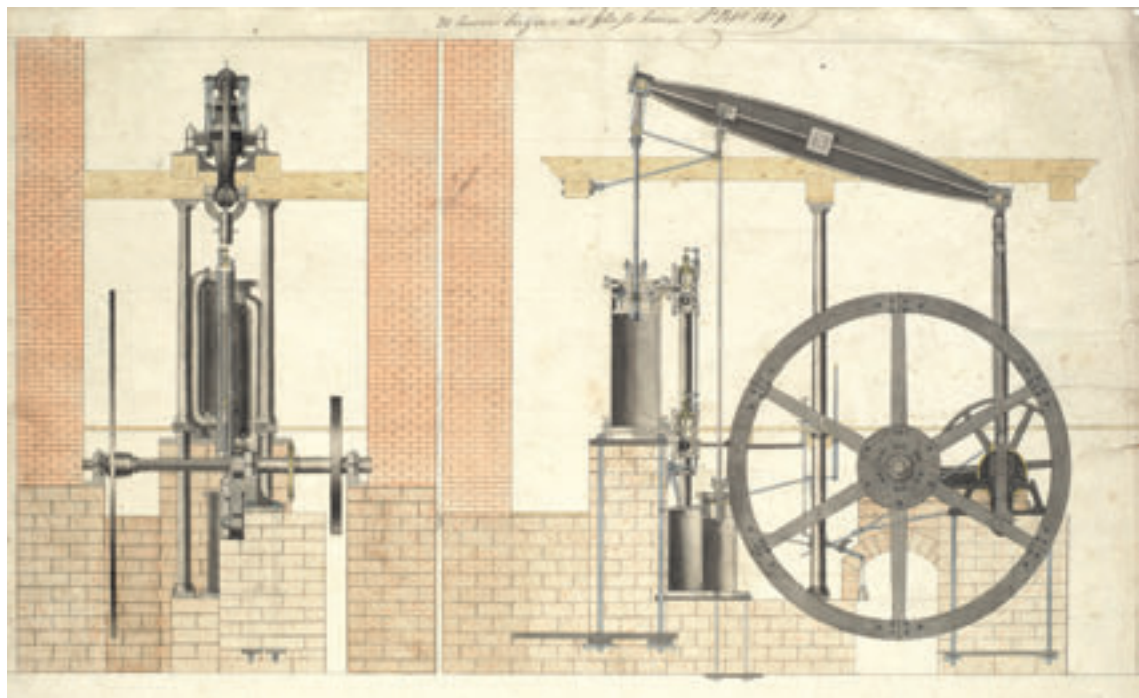
In 1800 Charles Baird was given permission to build two wooden boats for "commercial purposes" and employed the expertise of the Galerny Island dockyard as shipbuilding was something which at that stage he did not know anything about. At the turn of the century Charles Baird also began building boilers and steam-engines, which he then supplied to other factories. According to this typescript, during the first quarter of the 19th century the Baird Works built 139 steam engines for various factories and eleven for ships. As a result in 1806 a hundred men were sent to the Baird Works by the government for five years to learn how to build steam-engines.

According to a privately published family memoir of 1867 about Charles and Francis Baird, the Baird foundry "has continued uninterruptedly to the present time" and by 1832 father and son owned more steam-engines than anyone else in Russia, had the largest sugar refinery ever built in Russia, as well as many steam-boats.

End of Sale



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NOTICE TO BIDDERS

This notice is addressed by *Bonhams* to any person who may be interested in a *Lot*, including *Bidders* and potential *Bidders* (including any eventual *Buyer* of the *Lot*). For ease of reference we refer to such persons as “*Bidders*” or “*you*”. Our List of Definitions and Glossary is incorporated into this *Notice to Bidders*. It is at Appendix 3 at the back of the *Catalogue*. Where words and phrases are used in this notice which are in the List of Definitions, they are printed in italics.

IMPORTANT: Additional information applicable to the *Sale* may be set out in the *Catalogue* for the *Sale*, in an insert in the *Catalogue* and/or in a notice displayed at the *Sale* venue and you should read them as well. Announcements affecting the *Sale* may also be given out orally before and during the *Sale* without prior written notice. You should be alert to the possibility of changes and ask in advance of bidding if there have been any.

1. OUR ROLE

In its role as *Auctioneer* of *Lots*, *Bonhams* acts solely for and in the interests of the *Seller*. *Bonhams’* job is to sell the *Lot* at the highest price obtainable at the *Sale* to a *Bidder*. *Bonhams* does not act for *Buyers* or *Bidders* in this role and does not give advice to *Buyers* or *Bidders*. When it or its staff make statements about a *Lot* or, if *Bonhams* provides a *Condition Report* on a *Lot* it is doing that on behalf of the *Seller* of the *Lot*. *Bidders* and *Buyers* who are themselves not expert in the *Lots* are strongly advised to seek and obtain independent advice on the *Lots* and their value before bidding for them. The *Seller* has authorised *Bonhams* to sell the *Lot* as its agent on its behalf and, save where we expressly make it clear to the contrary, *Bonhams* acts only as agent for the *Seller*. Any statement or representation we make in respect of a *Lot* is made on the *Seller’s* behalf and, unless *Bonhams* sells a *Lot* as principal, not on our behalf and any *Contract for Sale* is between the *Buyer* and the *Seller* and not with us. If *Bonhams* sells a *Lot* as principal this will either be stated in the *Catalogue* or an announcement to that effect will be made by the *Auctioneer*, or it will be stated in a notice at the *Sale* or an insert in the *Catalogue*.

Bonhams does not owe or undertake or agree to any duty or responsibility to you in contract or tort (whether direct, collateral, express, implied or otherwise). If you successfully bid for a *Lot* and buy it, at that stage *Bonhams* does enter into an agreement with the *Buyer*. The terms of that contract are set out in our *Buyer’s Agreement*, which you will find at Appendix 2 at the back of the *Catalogue*. This will govern *Bonhams’* relationship with the *Buyer*.

2. LOTS

Subject to the *Contractual Description* printed in bold letters in the *Entry* about the *Lot* in the *Catalogue* (see paragraph 3 below), *Lots* are sold to the *Buyer* on an “as is” basis, with all faults and imperfections. Illustrations and photographs contained in the *Catalogue* (other than photographs forming part of the *Contractual Description*) or elsewhere of any *Lots* are for identification purposes only. They may not reveal the true condition of the *Lot*. A photograph or illustration may not reflect an accurate reproduction of the colour(s) of the *Lot*. *Lots* are available for inspection prior to the *Sale* and it is for you to satisfy yourself as to each and every aspect of a *Lot*, including its authorship, attribution, condition, provenance, history, background, authenticity, style, period, age, suitability, quality, roadworthiness (if relevant), origin, value and estimated selling price (including the *Hammer Price*). It is your responsibility to examine any *Lot* in which you are interested. It should be remembered that the actual condition of a *Lot* may not be as good as that indicated by its outward appearance. In particular, parts may have been replaced or renewed and *Lots* may not be authentic or of satisfactory quality; the inside of a *Lot* may not be visible and may not be original or may be damaged, as for example where it is covered by upholstery or material. Given the age of many *Lots* they may have been damaged and/or repaired and you should not assume that a *Lot* is in good condition. Electronic or mechanical parts may not operate or may not comply with current statutory requirements. You should not assume that electrical items designed to operate on mains electricity will be suitable for connection to the mains electricity supply and you should obtain a report from a qualified electrician on their status before

doing so. Such items which are unsuitable for connection are sold as items of interest for display purposes only. If you yourself do not have expertise regarding a *Lot*, you should consult someone who does to advise you. We can assist in arranging facilities for you to carry out or have carried out more detailed inspections and tests. Please ask our staff for details.

Any person who damages a *Lot* will be held liable for the loss caused.

3. DESCRIPTIONS OF LOTS AND ESTIMATES

Contractual Description of a Lot

The *Catalogue* contains an *Entry* about each *Lot*. Each *Lot* is sold by its respective *Seller* to the *Buyer* of the *Lot* as corresponding only with that part of the *Entry* which is printed in bold letters and (except for the colour, which may be inaccurately reproduced) with any photograph of the *Lot* in the *Catalogue*. The remainder of the *Entry*, which is not printed in bold letters, represents *Bonhams’* opinion (given on behalf of the *Seller*) about the *Lot* only and is not part of the *Contractual Description* in accordance with which the *Lot* is sold by the *Seller*.

Estimates

In most cases, an *Estimate* is printed beside the *Entry*. *Estimates* are only an expression of *Bonhams’* opinion made on behalf of the *Seller* of the range where *Bonhams* thinks the *Hammer Price* for the *Lot* is likely to fall; it is not an *Estimate* of value. It does not take into account any VAT or *Buyer’s Premium* payable. *Lots* can in fact sell for *Hammer Prices* below and above the *Estimate*. Any *Estimate* should not be relied on as an indication of the actual selling price or value of a *Lot*. *Estimates* are in the currency of the *Sale*.

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In respect of most *Lots*, you may ask for a *Condition Report* on its physical condition from *Bonhams*. If you do so, this will be provided by *Bonhams* on behalf of the *Seller* free of charge. *Bonhams* is not entering into a contract with you in respect of the *Condition Report* and accordingly does not assume responsibility to you in respect of it. Nor does the *Seller* owe or agree to owe you as a *Bidder* any obligation or duty in respect of this free report about a *Lot*, which is available for your own inspection or for inspection by an expert instructed by you. However, any written *Description* of the physical condition of the *Lot* contained in a *Condition Report* will form part of the *Contractual Description* of the *Lot* under which it is sold to any *Buyer*.

The Seller’s responsibility to you

The *Seller* does not make or agree to make any representation of fact or contractual promise, *Guarantee* or warranty and undertakes no obligation or duty, whether in contract or in tort (other than to the eventual *Buyer* as set out above), in respect of the accuracy or completeness of any statement or representation made by him or on his behalf, which is in any way descriptive of any *Lot* or as to the anticipated or likely selling price of any *Lot*. Other than as set out above, no statement or representation in any way descriptive of a *Lot* or any *Estimate* is incorporated into any *Contract for Sale* between a *Seller* and a *Buyer*.

Bonhams’ responsibility to you

You have the opportunity of examining the *Lot* if you want to and the *Contract for Sale* for a *Lot* is with the *Seller* and not with *Bonhams*; *Bonhams* acts as the *Seller’s* agent only (unless *Bonhams* sells the *Lot* as principal).

Bonhams undertakes no obligation to you to examine, investigate or carry out any tests, either in sufficient depth or at all, on each *Lot* to establish the accuracy or otherwise of any *Descriptions* or opinions given by *Bonhams*, or by any person on *Bonhams’* behalf, whether in the *Catalogue* or elsewhere.

You should not suppose that such examinations, investigations or tests have occurred.

Bonhams does not make or agree to make any representation of fact, and undertakes no obligation or duty (whether in contract or tort) in respect of the accuracy or completeness of any statement or representation made by *Bonhams* or on *Bonhams’* behalf which is in any way descriptive of any *Lot*

or as to the anticipated or likely selling price of any *Lot*. No statement or representation by *Bonhams* or on its behalf in any way descriptive of any *Lot* or any *Estimate* is incorporated into our *Buyer’s Agreement*.

Alterations

Descriptions and *Estimates* may be amended at *Bonhams’* discretion from time to time by notice given orally or in writing before or during a *Sale*.

THE *LOT* IS AVAILABLE FOR INSPECTION AND YOU MUST FORM YOUR OWN OPINION IN RELATION TO IT. YOU ARE STRONGLY ADVISED TO EXAMINE ANY *LOT* OR HAVE IT EXAMINED ON YOUR BEHALF BEFORE THE *SALE*.

4. CONDUCT OF THE SALE

Our *Sales* are public auctions which persons may attend and you should take the opportunity to do so. We do reserve the right at our sole discretion to refuse admission to our premises or to any *Sale* without stating a reason. We have complete discretion as to whether the *Sale* proceeds, whether any *Lot* is included in the *Sale*, the manner in which the *Sale* is conducted and we may offer *Lots for Sale* in any order we choose notwithstanding the numbers given to *Lots* in the *Catalogue*. You should therefore check the date and starting time of the *Sale*, whether there have been any withdrawals or late entries. Remember that withdrawals and late entries may affect the time at which a *Lot* you are interested in is put up for *Sale*. We have complete discretion to refuse any bid, to nominate any bidding increment we consider appropriate, to divide any *Lot*, to combine two or more *Lots*, to withdraw any *Lot* from a *Sale* and, before the *Sale* has been closed, to put up any *Lot* for auction again. Auction speeds can exceed 100 *Lots* to the hour and bidding increments are generally about 10%. However these do vary from *Sale* to *Sale* and from *Auctioneer* to *Auctioneer*. Please check with the department organising the *Sale* for advice on this. Where a *Reserve* has been applied to a *Lot*, the *Auctioneer* may, in his absolute discretion, place bids (up to an amount not equalling or exceeding such *Reserve*) on behalf of the *Seller*. We are not responsible to you in respect of the presence or absence of any *Reserve* in respect of any *Lot*. If there is a *Reserve* it will normally be no higher than the lower figure for any *Estimate* in the *Catalogue*, assuming that the currency of the *Reserve* has not fluctuated adversely against the currency of the *Estimate*. The *Buyer* will be the *Bidder* who makes the highest bid acceptable to the *Auctioneer* for any *Lot* (subject to any applicable *Reserve*) to whom the *Lot* is knocked down by the *Auctioneer* at the fall of the *Auctioneer’s* hammer. Any dispute as to the highest acceptable bid will be settled by the *Auctioneer* in his absolute discretion. All bids tendered will relate to the actual *Lot* number announced by the *Auctioneer*. An electronic currency converter may be used at the *Sale*. This equipment is provided as a general guide as to the equivalent amount in certain currencies of a given bid. We do not accept any responsibility for any errors which may occur in the use of the currency converter. We may use video cameras to record the *Sale* and may record telephone calls for reasons of security and to assist in solving any disputes which may arise in relation to bids made at the *Sale*. At some *Sales*, for example, jewellery *Sales*, we may use screens on which images of the *Lots* will be projected. This service is provided to assist viewing at the *Sale*. The image on the screen should be treated as an indication only of the current *Lot*. It should be noted that all bids tendered will relate to the actual *Lot* number announced by the *Auctioneer*. We do not accept any responsibility for any errors which may occur in the use of the screen.

5. BIDDING

We do not accept bids from any person who has not completed and delivered to us one of our *Bidding Forms*, either our *Bidder Registration Form*, *Absentee Bidding Form* or *Telephone Bidding Form*. You will be asked for proof of identity, residence and references, which, when asked for, you must supply if your bids are to be accepted by us. Please bring your passport, driving licence (or similar photographic proof of identity) and proof of address. We may request a deposit from you before allowing you to bid. We may refuse entry to a *Sale* to any person even if that person has completed a *Bidding Form*.

Bidding in person

You should come to our *Bidder* registration desk at the *Sale* venue and fill out a *Bidder* Registration Form on (or, if possible, before) the day of the *Sale*. The bidding number system is sometimes referred to as "paddle bidding". You will be issued with a large card (a "paddle") with a printed number on it. This will be attributed to you for the purposes of the *Sale*. Should you be a successful *Bidder* you will need to ensure that your number can be clearly seen by the *Auctioneer* and that it is your number which is identified as the *Buyer's*. You should not let anyone else use your paddle as all *Lots* will be invoiced to the name and address given on your *Bidder* Registration Form. Once an invoice is issued it will not be changed. If there is any doubt as to the *Hammer Price* of, or whether you are the successful *Bidder* of, a particular *Lot*, you must draw this to the attention of the *Auctioneer* before the next *Lot* is offered for *Sale*. At the end of the *Sale*, or when you have finished bidding please return your paddle to the *Bidder* registration desk.

Bidding by telephone

If you wish to bid at the *Sale* by telephone, please complete a Telephone *Bidding Form*, which is available from our offices or in the *Catalogue*. Please then return it to the office responsible for the *Sale* at least 24 hours in advance of the *Sale*. It is your responsibility to check with our Bids Office that your bid has been received. Telephone calls will be recorded. The telephone bidding facility is a discretionary service and may not be available in relation to all *Lots*. We will not be responsible for bidding on your behalf if you are unavailable at the time of the *Sale* or if the telephone connection is interrupted during bidding. Please contact us for further details.

Bidding by post or fax

Absentee *Bidding Forms* can be found in the back of this *Catalogue* and should be completed and sent to the office responsible for the *Sale*. It is in your interests to return your form as soon as possible, as if two or more *Bidders* submit identical bids for a *Lot*, the first bid received takes preference. In any event, all bids should be received at least 24 hours before the start of the *Sale*. Please check your Absentee *Bidding Form* carefully before returning it to us, fully completed and signed by you. It is your responsibility to check with our Bids Office that your bid has been received. This additional service is complimentary and is confidential. Such bids are made at your own risk and we cannot accept liability for our failure to receive and/or place any such bids. All bids made on your behalf will be made at the lowest level possible subject to *Reserves* and other bids made for the *Lot*. Where appropriate your bids will be rounded down to the nearest amount consistent with the *Auctioneer's* bidding increments. *New Bidders* must also provide proof of identity and address when submitting bids. Failure to do this will result in your bid not being placed.

Bidding via the internet

Please visit our *Website* at <http://www.bonhams.com> for details of how to bid via the internet.

Bidding through an agent

Bids will be accepted as placed on behalf of the person named as the principal on the *Bidding Form* although we may refuse to accept bids from an agent on behalf of a principal and will require written confirmation from the principal confirming the agent's authority to bid. Nevertheless, as the *Bidding Form* explains, any person placing a bid as agent on behalf of another (whether or not he has disclosed that fact or the identity of his principal) will be jointly and severally liable with the principal to the *Seller* and to *Bonhams* under any contract resulting from the acceptance of a bid. Subject to the above, please let us know if you are acting on behalf of another person when bidding for *Lots* at the *Sale*.

Equally, please let us know if you intend to nominate another person to bid on your behalf at the *Sale* unless this is to be carried out by us pursuant to a Telephone or Absentee *Bidding Form* that you have completed. If we do not approve the agency arrangements in writing before the *Sale*, we are entitled to assume that the person bidding at the *Sale* is bidding on his own behalf. Accordingly, the person bidding at the *Sale* will be the *Buyer* and will be liable to pay the *Hammer Price* and *Buyer's Premium* and associated charges. If we approve the identity of your client in advance, we will be in a position to

address the invoice to your principal rather than you. We will require proof of the agent's client's identity and residence in advance of any bids made by the agent on his behalf. Please refer to our *Conditions of Business* and contact our Customer Services Department for further details.

6. CONTRACTS BETWEEN THE BUYER AND SELLER AND THE BUYER AND BONHAMS

On the *Lot* being knocked down to the *Buyer*, a *Contract for Sale* of the *Lot* will be entered into between the *Seller* and the *Buyer* on the terms of the *Contract for Sale* set out in Appendix 1 at the back of the *Catalogue*. You will be liable to pay the *Purchase Price*, which is the *Hammer Price* plus any applicable VAT. At the same time, a separate contract is also entered into between us as *Auctioneers* and the *Buyer*. This is our *Buyer's Agreement*, the terms of which are set out in Appendix 2 at the back of the *Catalogue*. Please read the terms of the *Contract for Sale* and our *Buyer's Agreement* contained in the *Catalogue* in case you are the successful *Bidder*. We may change the terms of either or both of these agreements in advance of their being entered into, by setting out different terms in the *Catalogue* and/or by placing an insert in the *Catalogue* and/ or by notices at the *Sale* venue and/or by oral announcements before and during the *Sale*. You should be alert to this possibility of changes and ask if there have been any.

7. BUYER'S PREMIUM AND OTHER CHARGES PAYABLE BY THE BUYER

Under the *Buyer's Agreement*, a premium (the *Buyer's Premium*) is payable to us by the *Buyer* in accordance with the terms of the *Buyer's Agreement* and at rates set out below, calculated by reference to the *Hammer Price* and payable in addition to it. Storage charges and *Expenses* are also payable by the *Buyer* as set out in the *Buyer's Agreement*. All the sums payable to us by the *Buyer* are subject to VAT. For this *Sale* the following rates of *Buyer's Premium* will be payable by *Buyers* of *Lots*:

25% up to £50,000 of the <i>Hammer Price</i>
20% from £50,001 to £1,000,000 of the <i>Hammer Price</i>
12% from £1,000,001 of the <i>Hammer Price</i>

On certain *Lots*, which will be marked "AR" in the *Catalogue* and which are sold for a *Hammer Price* of £1,000 or greater (converted into the currency of the *Sale* using the European Central Bank Reference rate prevailing on the date of the *Sale*), the *Additional Premium* will be payable to us by the *Buyer* to cover our *Expenses* relating to the payment of royalties under the Artists Resale Right Regulations 2006. The *Additional Premium* will be a percentage of the amount of the *Hammer Price* calculated in accordance with the table below, and shall not exceed €12,500 (converted into the currency of the *Sale* using the European Central Bank Reference rate prevailing on the date of the *Sale*).

<i>Hammer Price</i>	Percentage amount
From €0 to €50,000	4%
From €50,000.01 to €200,000	3%
From €200,000.01 to €350,000	1%
From €350,000.01 to €500,000	0.5%
Exceeding €500,000	0.25%

8. VAT

The prevailing rate of VAT at the time of going to press is 20%, but this is subject to government change and the rate payable will be the rate in force on the date of the *Sale*.

The following symbols are used to denote that VAT is due on the *Hammer Price* and *Buyer's Premium*:

- † VAT at the prevailing rate on *Hammer Price* and *Buyer's Premium*
- Ω VAT on imported items at the prevailing rate on *Hammer Price* and *Buyer's Premium*
- * VAT on imported items at a preferential rate of 5% on *Hammer Price* and the prevailing rate on *Buyer's Premium*

- G Gold bullion exempt from VAT on the *Hammer Price* and subject to VAT at the prevailing rate on the *Buyer's Premium*
- Zero rated for VAT, no VAT will be added to the *Hammer Price* or the *Buyer's Premium*
- α *Buyers* from within the EU: VAT is payable at the prevailing rate on just the *Buyer's Premium* (NOT the *Hammer Price*). *Buyers* from outside the EU: VAT is payable at the prevailing rate on both *Hammer Price* and *Buyer's Premium*. If a *Buyer*, having registered under a non-EU address, decides that the item is not to be exported from the EU, then he should advise *Bonhams* immediately.

In all other instances no VAT will be charged on the *Hammer Price*, but VAT at the prevailing rate will be added to *Buyer's Premium* which will be invoiced on a VAT inclusive basis.

9. PAYMENT

It is of critical importance that you ensure that you have readily available funds to pay the *Purchase Price* and the *Buyer's Premium* (plus VAT and any other charges and *Expenses* to us) in full before making a bid for the *Lot*. If you are a successful *Bidder*, payment will be due to us by 4.30 pm on the second working day after the *Sale* so that all sums are cleared by the eighth working day after the *Sale*. Unless agreed by us in advance payments made by anyone other than the registered *Buyer* will not be accepted. Payment will have to be by one of the following methods (all cheques should be made payable to Bonhams 1793 Limited). *Bonhams* reserves the right to vary the terms of payment at any time.

Sterling personal cheque drawn on a UK branch of a bank or building society: all cheques must be cleared before you can collect your purchases;

Cash: you may pay for *Lots* purchased by you at this *Sale* with notes, coins or travellers cheques in the currency in which the *Sale* is conducted (but not any other currency) provided that the total amount payable by you in respect of all *Lots* purchased by you at the *Sale* does not exceed £3,000, or the equivalent in the currency in which the *Sale* is conducted, at the time when payment is made. If the amount payable by you for *Lots* exceeds that sum, the balance must be paid otherwise than in coins, notes or travellers cheques;

Bank transfer: you may electronically transfer funds to our *Trust Account*. If you do so, please quote your paddle number and invoice number as the reference. Our *Trust Account* details are as follows:

Bank: National Westminster Bank Plc
Address: PO Box 4RY
250 Regent Street
London W1A 4RY
Account Name: Bonhams 1793 Limited Trust Account
Account Number: 25563009
Sort Code: 56-00-27
IBAN Number: GB 33 NWBK 560027 25563009

If paying by bank transfer, the amount received after the deduction of any bank fees and/or conversion of the currency of payment to pounds sterling must not be less than the sterling amount payable, as set out on the invoice.

Debit cards: there is no additional charge for purchases made with personal debit cards, issued by a UK bank. Debit cards issued by an overseas bank, deferred and company debit cards and all credit cards will be subject to a 2% surcharge;

Credit cards: Visa and Mastercard only. Please note there is a 2% surcharge on the total invoice value when payments are made using credit cards. It may be advisable to notify your card provider of your intended purchase in advance to reduce delays caused by us having to seek authority when you come to pay. If you have any questions with regard to payment, please contact our Customer Services Department.

China UnionPay (CUP) debit cards: No surcharge for using CUP debit cards will apply on the first £100,000 invoiced to a Buyer in any Sale; a 2% surcharge will be made on the balance over £100,000.

10. COLLECTION AND STORAGE

The *Buyer* of a *Lot* will not be allowed to collect it until payment in full and in cleared funds has been made (unless we have made a special arrangement with the *Buyer*). For collection and removal of purchased *Lots*, please refer to *Sale* Information at the front of the *Catalogue*. Our offices are open 9.00am – 5pm Monday to Friday. Details relating to the collection of a *Lot*, the storage of a *Lot* and our *Storage Contractor* after the *Sale* are set out in the *Catalogue*.

11. SHIPPING

Please refer all enquiries to our shipping department on:
Tel: +44 (0)20 8963 2850/2852 Fax: +44 (0)20 8963 2805
Email: shipping@bonhams.com

12. EXPORT/TRADE RESTRICTIONS

It is your sole responsibility to comply with all export and import regulations relating to your purchases and also to obtain any relevant export and/or import licence(s). Export licences are issued by Arts Council England and application forms can be obtained from its Export Licensing Unit. The detailed provisions of the export licencing arrangements can be found on the ACE website <http://www.artscouncil.org.uk/what-we-do/supporting-museums-cultural-property/export-controls/export-licensing/> or by phoning ACE on +44 (0)20 7973 5188. The need for import licences varies from country to country and you should acquaint yourself with all relevant local requirements and provisions. The refusal of any import or export licence(s) or any delay in obtaining such licence(s) shall not permit the rescission of any *Sale* nor allow any delay in making full payment for the *Lot*. Generally, please contact our shipping department before the *Sale* if you require assistance in relation to export regulations.

13. CITES REGULATIONS

Please be aware that all *Lots* marked with the symbol Y are subject to CITES regulations when exporting these items outside the EU. These regulations may be found at <http://www.defra.gov.uk/ahvla-en/imports-exports/cites/> or may be requested from:

Animal Health and Veterinary Laboratories Agency (AHVLA)
Wildlife Licencing
Floor 1, Zone 17, Temple Quay House
2 The Square, Temple Quay
BRISTOL BS1 6EB
Tel: +44 (0) 117 372 8774

14. THE SELLERS AND/OR BONHAMS' LIABILITY

Other than any liability of the *Seller* to the *Buyer* of a *Lot* under the *Contract for Sale*, neither we nor the *Seller* are liable (whether in negligence or otherwise) for any error or misdescription or omission in any *Description* of a *Lot* or any *Estimate* in respect of it, whether contained in the *Catalogue* or otherwise, whether given orally or in writing and whether given before or during the *Sale*. Neither we nor the *Seller* will be liable for any loss of *Business*, profits, revenue or income, or for loss of reputation, or for disruption to *Business* or wasted time on the part of management or staff, or for indirect losses or consequential damages of any kind, irrespective in any case of the nature, volume or source of the loss or damage alleged to be suffered, and irrespective of whether the said loss or damage is caused by or claimed in respect of any negligence, other tort, breach of contract (if any) or statutory duty, restitutionary claim or otherwise. In any circumstances where we and/or the *Seller* are liable in relation to any *Lot* or any *Description* or *Estimate* made of any *Lot*, or the conduct of any *Sale* in relation to any *Lot*, whether in damages, for an indemnity or contribution, or for a restitutionary remedy or otherwise, our and/or the *Seller's* liability (combined, if both we and the *Seller* are liable) will be limited to payment of a sum which will not exceed by way of maximum the amount of the *Purchase Price* of the *Lot* irrespective in any case of the nature, volume or source of any loss or damage alleged to be suffered or sum claimed as due, and irrespective of whether the liability arises from any negligence, other tort, breach of contract (if any) or statutory duty or otherwise. Nothing set out above will be construed as excluding or restricting (whether directly or

indirectly) our liability or excluding or restricting any person's rights or remedies in respect of (i) fraud, or (ii) death or personal injury caused by our negligence (or by the negligence of any person under our control or for whom we are legally responsible), or (iii) acts or omissions for which we are liable under the Occupiers Liability Act 1957, or (iv) any other liability to the extent the same may not be excluded or restricted as a matter of law or (v) our undertakings under paragraphs 9 (in relation to specialist *Stamp* or *Book Sales* only) and 10 of the *Buyer's Agreement*. The same applies in respect of the *Seller*, as if references to us in this paragraph were substituted with references to the *Seller*.

15. BOOKS

As stated above, all *Lots* are sold on an "as is" basis, subject to all faults, imperfections and errors of *Description* save as set out below. However, you will be entitled to reject a *Book* in the circumstances set out in paragraph 11 of the *Buyers Agreement*. Please note that *Lots* comprising printed *Books*, unframed maps and bound manuscripts are not liable to VAT on the *Buyer's Premium*.

16. CLOCKS AND WATCHES

All *Lots* are sold "as is", and the absence of any reference to the condition of a clock or watch does not imply that the *Lot* is in good condition and without defects, repairs or restorations. Most clocks and watches have been repaired in the course of their normal lifetime and may now incorporate parts not original to them. Furthermore, *Bonhams* makes no representation or warranty that any clock or watch is in working order. As clocks and watches often contain fine and complex mechanisms, *Bidders* should be aware that a general service, change of battery or further repair work, for which the *Buyer* is solely responsible, may be necessary. *Bidders* should be aware that the importation of watches such as Rolex, Frank Muller and Corum into the United States is highly restricted. These watches may not be shipped to the USA and can only be imported personally.

17. FIREARMS – PROOF, CONDITION AND CERTIFICATION

Proof of Firearms

The term "proof exemption" indicates that a firearm has been examined at a Proof House, but not proved, as either (a) it was deemed of interest and not intended for use, or (b) ammunition was not available. In either case, the firearm must be regarded as unsafe to fire unless subsequently proved. Firearms proved for Black Powder should not be used with smokeless ammunition.

The term "Certificate of Unprovability" indicates that a firearm has been examined at a Proof House and is deemed both unsuitable for proof and use. Reproof is required before any such firearm is to be used.

Guns Sold as Parts

Barrels of guns sold as parts will only be made available for sleeving and measurements once rendered unserviceable according to the Gun Barrel Proof Act of 1968 to 1978 and the Rules of Proof.

Condition of Firearms

Comment in this *Catalogue* is restricted, in general, to exceptional condition and to those defects that might affect the immediate safety of a firearm in normal use. An intending *Bidder* unable to make technical examinations and assessments is recommended to seek advice from a gunmaker or from a modern firearms specialist. All prospective *Bidders* are advised to consult the "of bore and wall-thickness measurements posted in the saleroom and available from the department. *Bidders* should note that guns are stripped only where there is a strong indication of a mechanical malfunction. Stripping is not, otherwise, undertaken. Guns intended for use should be stripped and cleaned beforehand. Hammer guns should have their rebound mechanisms checked before use. The safety mechanisms of all guns must be tested before use. All measurements are approximate.

Original Gun Specifications Derived from Gunmakers

The Sporting Gun Department endeavours to confirm a gun's original specification and date of manufacture with makers who hold their original records.

Licensing Requirements

Firearms Act 1968 as amended

Bonhams is constantly reviewing its procedures and would remind you that, in the case of firearms or shotguns subject to certification, to conform with current legislation, *Bonhams* is required to see, as appropriate, your original registered firearms dealer's certificate / shot gun certificate / firearm certificate / museum firearms licence / Section 5 authority or import licence (or details of any exemption from which you may benefit, for instance Crown servant status) for the firearm(s) you have purchased prior to taking full payment of the amount shown on your invoice. Should you not already be in possession of such an authority or exemption, you are required to initially pay a deposit of 95% of the total invoice with the balance of 5% payable on presentation of your valid certificate or licence showing your authority to hold the firearm(s) concerned.

Please be advised that if a successful *Bidder* is then unable to produce the correct paperwork, the *Lot(s)* will be reoffered by *Bonhams* in the next appropriate *Sale*, on standard terms for *Sellers*, and you will be responsible for any loss incurred by *Bonhams* on the original *Sale* to you.

In the case of RFD certificates and Section 5 authorities, we wish to keep an up-to-date copy on file. Please supply us with a Fax or photocopy. It would be helpful if you could send us an updated copy whenever your certificate or authority is renewed or changed.

Lots marked 'S1' and bearing red labels are Section 1 firearms and require a valid British Firearms certificate, RFD Licence or import licence.

Lots marked 'S2' and bearing blue labels are Section 2 firearms and require a valid British Shotgun certificate, RFD licence or import licence.

Lots marked 'S5' and bearing specially marked red labels are Section 5 prohibited firearms and require a valid Section 5 Authority or import licence.

Lots marked with a 'S58' and bearing yellow labels are for obsolete calibres and no licence is required unless ammunition is held.

Unmarked *Lots* require no licence.

Please do not hesitate to contact the Modern Sporting Gun Department should you have any queries.

Taxidermy and Related Items

As a *Seller* of these articles, *Bonhams* undertakes to comply fully with Cites and DEFRA regulations. *Buyers* are advised to inform themselves of all such regulations and should expect the exportation of items to take some time to arrange.

18. FURNITURE

Upholstered Furniture

Whilst we take every care in cataloguing furniture which has been upholstered we offer no *Guarantee* as to the originality of the wood covered by fabric or upholstery.

19. JEWELLERY

≈ Ruby and Jadeite

Ruby and jadeite gemstones of Burmese (Myanmar) origin may not be imported into the US. Rubies and jadeite of non-Burmese origin require certification before import into the US and it is the *Buyer's* responsibility to obtain all relevant and required export/import licences, certificates and documentation before shipping. Failure by the *Buyer* to successfully import goods into the US does not constitute grounds for non payment or cancellation of *Sale*. *Bonhams* will not be responsible for any additional costs in this regard howsoever incurred.

Gemstones

Historically many gemstones have been subjected to a variety of treatments to enhance their appearance. Sapphires and rubies are routinely heat treated to improve their colour and clarity, similarly emeralds are frequently treated with oils or resin for the same purpose. Other treatments such as staining, irradiation or coating may have been used on other gemstones. These treatments may be permanent, whilst others may need special care or re-treatment over the years to retain their appearance. *Bidders* should be aware that *Estimates* assume that gemstones may have been subjected to such treatments. A number of laboratories issue certificates that give more detailed *Descriptions* of gemstones. However there may not be consensus between different laboratories on the degrees, or types of treatment for any particular gemstone. In the event that *Bonhams* has been given or has obtained certificates for any *Lot* in the *Sale* these certificates will be disclosed in the *Catalogue*. Although, as a matter of policy, *Bonhams* endeavours to provide certificates from recognised laboratories for certain gemstones, it is not feasible to obtain certificates for each *Lot*. In the event that no certificate is published in the *Catalogue*, *Bidders* should assume that the gemstones may have been treated. Neither *Bonhams* nor the *Seller* accepts any liability for contradictions or differing certificates obtained by *Buyers* on any *Lots* subsequent to the *Sale*.

Estimated Weights

If a stone(s) weight appears within the body of the *Description* in capital letters, the stone(s) has been unmounted and weighed by *Bonhams*. If the weight of the stone(s) is stated to be approximate and does not appear in capital letters, the stone(s) has been assessed by us within its/their settings, and the stated weight is a statement of our opinion only. This information is given as a guide and *Bidders* should satisfy themselves with regard to this information as to its accuracy.

Signatures

1. A diamond brooch, by Kutchinsky

When the maker's name appears in the title, in *Bonhams'* opinion the piece is by that maker.

2. A diamond brooch, signed Kutchinsky

Has a signature that, in *Bonhams'* opinion, is authentic but may contain gemstones that are not original, or the piece may have been altered.

3. A diamond brooch, mounted by Kutchinsky

Has been created by the jeweller, in *Bonhams'* opinion, but using stones or designs supplied by the client.

20. PHOTOGRAPHS

Explanation of Catalogue Terms

- "Bill Brandt": in our opinion a work by the artist.
- "Attributed to Bill Brandt": in our opinion probably a work by the artist, but less certainty to authorship is expressed than in the preceding category.
- "Signed and/or titled and/or dated and/or inscribed": in our opinion the signature and/or title and/or date and/or inscription are in the artist's hand.
- "Signed and/or titled and/or dated and/or inscribed in another hand": in our opinion the signature and/or title and/or date and/or inscription have been added by another hand.
- The date given is that of the image (negative). Where no further date is given, this indicates that the photographic print is vintage (the term "vintage" may also be included in the *Lot Description*). A vintage photograph is one which was made within approximately 5-10 years of the negative. Where a second, later date appears, this refers to the date of printing. Where the exact printing date is not known, but understood to be later, "printed later" will appear in the *Lot Description*.
- Unless otherwise specified, dimensions given are those of the piece of paper on which the image is printed, including any margins. Some photographs may appear in the *Catalogue* without margins illustrated.
- All photographs are sold unframed unless stated in the *Lot Description*.

21. PICTURES

Explanation of Catalogue Terms

The following terms used in the *Catalogue* have the following meanings but are subject to the general provisions relating to *Descriptions* contained in the *Contract for Sale*:

- "Jacopo Bassano": in our opinion a work by the artist. When the artist's forename(s) is not known, a series of asterisks, followed by the surname of the artist, whether preceded by an initial or not, indicates that in our opinion the work is by the artist named;
- "Attributed to Jacopo Bassano": in our opinion probably a work by the artist but less certainty as to authorship is expressed than in the preceding category;
- "Studio/Workshop of Jacopo Bassano": in our opinion a work by an unknown hand in a studio of the artist which may or may not have been executed under the artist's direction;
- "Circle of Jacopo Bassano": in our opinion a work by a hand closely associated with a named artist but not necessarily his pupil;
- "Follower of Jacopo Bassano": in our opinion a work by a painter working in the artist's style, contemporary or nearly contemporary, but not necessarily his pupil;
- "Manner of Jacopo Bassano": in our opinion a work in the style of the artist and of a later date;
- "After Jacopo Bassano": in our opinion, a copy of a known work of the artist;
- "Signed and/or dated and/or inscribed": in our opinion the signature and/or date and/or inscription are from the hand of the artist;
- "Bears a signature and/or date and/or inscription": in our opinion the signature and/or date and/or inscription have been added by another hand.

22. PORCELAIN AND GLASS

Damage and Restoration

For your guidance, in our *Catalogues* we detail, as far as practicable, recorded all significant defects, cracks and restoration. Such practicable *Descriptions* of damage cannot be definitive, and in providing *Condition Reports*, we cannot *Guarantee* that there are no other defects present which have not been mentioned. *Bidders* should satisfy themselves by inspection, as to the condition of each *Lot*. Please see the *Contract for Sale* printed in this *Catalogue*. Because of the difficulty in determining whether an item of glass has been repolished, in our *Catalogues* reference is only made to visible chips and cracks. No mention is made of repolishing, severe or otherwise.

23. VEHICLES

The Veteran Car Club of Great Britain

Dating Plates and Certificates

When mention is made of a Veteran Car Club Dating Plate or Dating Certificate in this *Catalogue*, it should be borne in mind that the Veteran Car Club of Great Britain using the services of Veteran Car Company Ltd, does from time to time, review cars already dated and, in some instances, where fresh evidence becomes available, the review can result in an alteration of date. Whilst the Club and Veteran Car Company Ltd make every effort to ensure accuracy, the date shown on the Dating Plate or Dating Certificate cannot be guaranteed as correct and intending purchasers should make their own enquiries as to the date of the car.

24. WINE

Lots which are lying under Bond and those liable to VAT may not be available for immediate collection.

Examining the wines

It is occasionally possible to provide a pre-Sale tasting for larger parcels (as defined below). This is generally limited to more recent and everyday drinking wines. Please contact the department for details.

It is not our policy to inspect every unopened case. In the case of wines older than 20 years the boxes will usually have been opened and levels and appearance noted in the *Catalogue* where necessary. You should make proper allowance for variations in ullage levels and conditions of corks, capsules and labels.

Corks and Ullages

Ullage refers to the space between the base of the cork and the wine. Ullage levels for Bordeaux shaped bottles are only normally noted when below the neck and for Burgundy, Alsace, German and Cognac shaped bottles when greater than 4 centimetres (cm). Acceptable ullage levels increase with age; generally acceptable levels are as follows:

Under 15 years old – into neck or less than 4cm
15 to 30 years old – top shoulder (ts) or up to 5cm
Over 30 years old – high shoulder (hs) or up to 6cm

It should be noted that ullages may change between publication of the *Catalogue* and the *Sale* and that corks may fail as a result of transporting the wine. We will only accept responsibility for *Descriptions* of condition at the time of publication of the *Catalogue* and cannot accept responsibility for any loss resulting from failure of corks either before or after this point.

Options to buy parcels

A parcel is a number of *Lots* of identical size of the same wine, bottle size and *Description*. The *Buyer* of any of these *Lots* has the option to accept some or all of the remaining *Lots* in the parcel at the same price, although such options will be at the *Auctioneer's* sole discretion. Absentee *Bidders* are, therefore, advised to bid on the first *Lot* in a parcel.

Wines in Bond

Wines lying in Bond are marked Δ and VAT is payable by the purchaser, at the standard rate, on the *Hammer Price*, unless the wines are to remain under Bond. *Buyers* requiring their wine to remain in Bond must notify *Bonhams* at the time of the *Sale*. The *Buyer* is then himself responsible for all duty, clearance VAT and other charges that may be payable thereon. All such *Lots* must be transferred or collected within two weeks of the *Sale*.

Buyers outside the UK must be aware that any forwarding agent appointed to export their purchases must have a movement certificate for *Lots* to be released under Bond.

Bottling Details and Case Terms

The following terms used in the *Catalogue* have the following meanings:

CB – Château bottled
DB – Domaine bottled
EstB – Estate bottled
BB – Bordeaux bottled
BE – Belgian bottled
FB – French bottled
GB – German bottled
OB – Oporto bottled
UK – United Kingdom bottled
owc – original wooden case
iwc – individual wooden case
oc – original carton

SYMBOLS

THE FOLLOWING SYMBOLS ARE USED TO DENOTE

- Y Subject to CITES regulations when exporting these items outside the EU, see clause 13.
- W Objects displayed with a w will be located in the Bonhams Warehouse and will only be available for collection from this location.
- ≈ Please note that as a result of recent legislation ruby and jadeite gem stones of Burmese (Myanmar) origin may not be imported into the US. Rubies and jadeite of non-Burmese origin require certification before import into the US.
- Δ Wines lying in Bond.
- AR An *Additional Premium* will be payable to us by the *Buyer* to cover our *Expenses* relating to payment of royalties under the Artists Resale Right Regulations 2006. See clause 7 for details.
- The *Seller* has been guaranteed a minimum price for the *Lot*, either by *Bonhams* or a third party. This may take the form of an irrevocable bid by a third party, who may make a financial gain on a successful *Sale* or a financial loss if unsuccessful.
- ▲ *Bonhams* owns the *Lot* either wholly or partially or may otherwise have an economic interest.
- Ⓢ This lot contains or is made of ivory. The United States Government has banned the import of Ivory into the USA.

•, †, *, G, Ω, α see clause 8, VAT, for details.

DATA PROTECTION – USE OF YOUR INFORMATION

Where we obtain any personal information about you, we shall only use it in accordance with the terms of our Privacy Policy (subject to any additional specific consent(s) you may have given at the time your information was disclosed). A copy of our Privacy Policy can be found on our Website www.bonhams.com or requested by post from Customer Services Department, 101 New Bond Street, London, W1S 1SR or by email from info@bonhams.com

APPENDIX 1

CONTRACT FOR SALE

IMPORTANT: These terms may be changed in advance of the *Sale* of the *Lot* to you, by the setting out of different terms in the *Catalogue* for the *Sale* and/or by placing an insert in the *Catalogue* and/or by notices at the *Sale* venue and/or by oral announcements before and during the *Sale* at the *Sale* venue. You should be alert to this possibility of changes and ask in advance of bidding if there have been any.

Under this contract the *Seller's* liability in respect of the quality of the *Lot*, it's fitness for any purpose and its conformity with any *Description* is limited. You are strongly advised to examine the *Lot* for yourself and/or obtain an independent examination of it before you buy it.

1 THE CONTRACT

- 1.1 These terms govern the *Contract for Sale* of the *Lot* by the *Seller* to the *Buyer*.
- 1.2 The Definitions and Glossary contained in Appendix 3 in the *Catalogue* are incorporated into this *Contract for Sale* and a separate copy can also be provided by *Bonhams* on request. Where words and phrases are used which are in the List of Definitions, they are printed in italics.
- 1.3 The *Seller* sells the *Lot* as the principal to the *Contract for Sale*, such contract being made between the *Seller* and you through *Bonhams* which acts in the sole capacity as the *Seller's* agent and not as an additional principal. However, if the *Catalogue* states that *Bonhams* sells the *Lot* as principal, or such a statement is made by an announcement by the *Auctioneer*, or by a notice at the *Sale*, or an insert in the *Catalogue*, then *Bonhams* is the *Seller* for the purposes of this agreement.
- 1.4 The contract is made on the fall of the *Auctioneer's* hammer in respect of the *Lot* when it is knocked down to you.

2 SELLER'S UNDERTAKINGS

- 2.1 The *Seller* undertakes to you that:
- 2.1.1 the *Seller* is the owner of the *Lot* or is duly authorised to sell the *Lot* by the owner;
- 2.1.2 save as disclosed in the *Entry* for the *Lot* in the *Catalogue*, the *Seller* sells the *Lot* with full title guarantee or, where the *Seller* is an executor, trustee, liquidator, receiver or administrator, with whatever right, title or interest he may have in the *Lot*;
- 2.1.3 except where the *Sale* is by an executor, trustee, liquidator, receiver or administrator the *Seller* is both legally entitled to sell the *Lot*, and legally capable of conferring on you quiet possession of the *Lot* and that the *Sale* conforms in every respect with the terms implied by the Sale of Goods Act 1979, Sections 12(1) and 12(2) (see the Definitions and Glossary);
- 2.1.4 the *Seller* has complied with all requirements, legal or otherwise, relating to any export or import of the *Lot*, and all duties and taxes in respect of the export or import of the *Lot* have (unless stated to the contrary in the *Catalogue* or announced by the *Auctioneer*) been paid and, so far as the *Seller* is aware, all third parties have complied with such requirements in the past;
- 2.1.5 subject to any alterations expressly identified as such made by announcement or notice at the *Sale* venue or by the *Notice to Bidders* or by an insert in the *Catalogue*, the *Lot* corresponds with the *Contractual Description* of the *Lot*, being that part of the *Entry* about the *Lot* in the *Catalogue* which is in bold letters and (except for colour) with any photograph of the *Lot* in the *Catalogue* and the contents of any *Condition Report* which has been provided to the *Buyer*.

3 DESCRIPTIONS OF THE LOT

- 3.1 Paragraph 2.1.5 sets out what is the *Contractual Description* of the *Lot*. In particular, the *Lot* is not sold as corresponding with that part of the *Entry* in the *Catalogue* which is not printed in bold letters, which merely sets out (on the *Seller's* behalf) *Bonhams'* opinion about the *Lot* and which is not part of the *Contractual Description* upon which the *Lot* is sold. Any statement or representation other than that part of the *Entry* referred to in paragraph 2.1.5 (together with any express alteration to it as referred to in paragraph 2.1.5), including any *Description* or *Estimate*, whether made orally or in writing, including in the *Catalogue* or on *Bonhams' Website*, or by conduct, or otherwise, and whether by or on behalf of the *Seller* or *Bonhams* and whether made prior to or during the *Sale*, is not part of the *Contractual Description* upon which the *Lot* is sold.
- 3.2 Except as provided in paragraph 2.1.5, the *Seller* does not make or give and does not agree to make or give any contractual promise, undertaking, obligation, guarantee, warranty, or representation of fact, or undertake any duty of care, in relation to any *Description* of the *Lot* or any *Estimate* in relation to it, nor of the accuracy or completeness of any *Description* or *Estimate* which may have been made by or on behalf of the *Seller* including by *Bonhams*. No such *Description* or *Estimate* is incorporated into this *Contract for Sale*.

4 FITNESS FOR PURPOSE AND SATISFACTORY QUALITY

- 4.1 The *Seller* does not make and does not agree to make any contractual promise, undertaking, obligation, guarantee, warranty, or representation of fact in relation to the satisfactory quality of the *Lot* or its fitness for any purpose.

- 4.2 The *Seller* will not be liable for any breach of any undertaking, whether implied by the Sale of Goods Act 1979 or otherwise, as to the satisfactory quality of the *Lot* or its fitness for any purpose.

5 RISK, PROPERTY AND TITLE

- 5.1 Risk in the *Lot* passes to you when it is knocked down to you on the fall of the *Auctioneer's* hammer in respect of the *Lot*. The *Seller* will not be responsible thereafter for the *Lot* prior to you collecting it from *Bonhams* or the *Storage Contractor*, with whom you have separate contract(s) as *Buyer*. You will indemnify the *Seller* and keep the *Seller* fully indemnified from and against all claims, proceedings, costs, expenses and losses arising in respect of any injury, loss and damage caused to the *Lot* after the fall of the *Auctioneer's* hammer until you obtain full title to it.
- 5.2 Title to the *Lot* remains in and is retained by the *Seller* until the *Purchase Price* and all other sums payable by you to *Bonhams* in relation to the *Lot* have been paid in full to, and received in cleared funds by, *Bonhams*.

6 PAYMENT

- 6.1 Your obligation to pay the *Purchase Price* arises when the *Lot* is knocked down to you on the fall of the *Auctioneer's* hammer in respect of the *Lot*.
- 6.2 Time will be of the essence in relation to payment of the *Purchase Price* and all other sums payable by you to *Bonhams*. Unless agreed in writing with you by *Bonhams* on the *Seller's* behalf (in which case you must comply with the terms of that agreement), all such sums must be paid to *Bonhams* by you in the currency in which the *Sale* was conducted by not later than 4.30pm on the second working day following the *Sale* and you must ensure that the funds are cleared by the seventh working day after the *Sale*. Payment must be made to *Bonhams* by one of the methods stated in the *Notice to Bidders* unless otherwise agreed with you in writing by *Bonhams*. If you do not pay any sums due in accordance with this paragraph, the *Seller* will have the rights set out in paragraph 8 below.

7 COLLECTION OF THE LOT

- 7.1 Unless otherwise agreed in writing with you by *Bonhams*, the *Lot* will be released to you or to your order only when *Bonhams* has received cleared funds to the amount of the full *Purchase Price* and all other sums owed by you to the *Seller* and to *Bonhams*.
- 7.2 The *Seller* is entitled to withhold possession from you of any other *Lot* he has sold to you at the same or at any other *Sale* and whether currently in *Bonhams'* possession or not until payment in full and in cleared funds of the *Purchase Price* and all other sums due to the *Seller* and/or *Bonhams* in respect of the *Lot*.
- 7.3 You will collect and remove the *Lot* at your own expense from *Bonhams'* custody and/ or control or from the *Storage Contractor's* custody in accordance with *Bonhams'* instructions or requirements.
- 7.4 You will be wholly responsible for packing, handling and transport of the *Lot* on collection and for complying with all import or export regulations in connection with the *Lot*.
- 7.5 You will be wholly responsible for any removal, storage or other charges or *Expenses* incurred by the *Seller* if you do not remove the *Lot* in accordance with this paragraph 7 and will indemnify the *Seller* against all charges, costs, including any legal costs and fees, *Expenses* and losses suffered by the *Seller* by reason of your failure to remove the *Lot* including any charges due under any *Storage Contract*. All such sums due to the *Seller* will be payable on demand.

8	FAILURE TO PAY FOR THE LOT	9	THE SELLER'S LIABILITY	10.3	If either party to the <i>Contract for Sale</i> is prevented from performing that party's respective obligations under the <i>Contract for Sale</i> by circumstances beyond its reasonable control or if performance of its obligations would by reason of such circumstances give rise to a significantly increased financial cost to it, that party will not, for so long as such circumstances prevail, be required to perform such obligations. This paragraph does not apply to the obligations imposed on you by paragraph 6.
8.1	If the <i>Purchase Price</i> for a <i>Lot</i> is not paid to <i>Bonhams</i> in full in accordance with the <i>Contract for Sale</i> the <i>Seller</i> will be entitled, with the prior written agreement of <i>Bonhams</i> but without further notice to you, to exercise one or more of the following rights (whether through <i>Bonhams</i> or otherwise):	9.1	The <i>Seller</i> will not be liable for any injury, loss or damage caused by the <i>Lot</i> after the fall of the <i>Auctioneer's</i> hammer in respect of the <i>Lot</i> .	10.4	Any notice or other communication to be given under the <i>Contract for Sale</i> must be in writing and may be delivered by hand or sent by first class post or air mail or fax transmission, if to the <i>Seller</i> , addressed c/o <i>Bonhams</i> at its address or fax number in the <i>Catalogue</i> (marked for the attention of the Company Secretary), and if to you to the address or fax number of the <i>Buyer</i> given in the <i>Bidding Form</i> (unless notice of any change of address is given in writing). It is the responsibility of the sender of the notice or communication to ensure that it is received in a legible form within any applicable time period.
8.1.1	to terminate immediately the <i>Contract for Sale</i> of the <i>Lot</i> for your breach of contract;	9.2	Subject to paragraph 9.3 below, except for breach of the express undertaking provided in paragraph 2.1.5, the <i>Seller</i> will not be liable for any breach of any term that the <i>Lot</i> will correspond with any <i>Description</i> applied to it by or on behalf of the <i>Seller</i> , whether implied by the Sale of Goods Act 1979 or otherwise.	10.5	If any term or any part of any term of the <i>Contract for Sale</i> is held to be unenforceable or invalid, such unenforceability or invalidity will not affect the enforceability and validity of the remaining terms or the remainder of the relevant term.
8.1.2	to resell the <i>Lot</i> by auction, private treaty or any other means on giving seven days' written notice to you of the intention to resell;	9.3	Unless the <i>Seller</i> sells the <i>Lot</i> in the course of a <i>Business</i> and the <i>Buyer</i> buys it as a <i>Consumer</i> ,	10.6	References in the <i>Contract for Sale</i> to <i>Bonhams</i> will, where appropriate, include reference to <i>Bonhams'</i> officers, employees and agents.
8.1.3	to retain possession of the <i>Lot</i> ;	9.3.1	the <i>Seller</i> will not be liable (whether in negligence, other tort, breach of contract or statutory duty or in restitution or under the Misrepresentation Act 1967, or in any other way) for any lack of conformity with, or inaccuracy, error, misdescription or omission in any <i>Description</i> of the <i>Lot</i> or any <i>Entry</i> or <i>Estimate</i> in relation to the <i>Lot</i> made by or on behalf of the <i>Seller</i> (whether made in writing, including in the <i>Catalogue</i> , or on the <i>Website</i> , or orally, or by conduct or otherwise) and whether made before or after this agreement or prior to or during the <i>Sale</i> ;	10.7	The headings used in the <i>Contract for Sale</i> are for convenience only and will not affect its interpretation.
8.1.4	to remove and store the <i>Lot</i> at your expense;	9.3.2	the <i>Seller</i> will not be liable for any loss of <i>Business</i> , <i>Business</i> profits or revenue or income or for loss of reputation or for disruption to <i>Business</i> or wasted time on the part of the <i>Buyer</i> or of the <i>Buyer's</i> management or staff or, for any indirect losses or consequential damages of any kind, irrespective in any case of the nature, volume or source of the loss or damage alleged to be suffered, and irrespective of whether the said loss or damage is caused by or claimed in respect of any negligence, other tort, breach of contract, statutory duty, restitutionary claim or otherwise;	10.8	In the <i>Contract for Sale</i> "including" means "including, without limitation".
8.1.5	to take legal proceedings against you for any sum due under the <i>Contract for Sale</i> and/or damages for breach of contract;	9.3.3	in any circumstances where the <i>Seller</i> is liable to you in respect of the <i>Lot</i> , or any act, omission, statement, or representation in respect of it, or this agreement or its performance, and whether in damages, for an indemnity or contribution or for a restitutionary remedy or in any way whatsoever, the <i>Seller's</i> liability will be limited to payment of a sum which will not exceed by way of maximum the amount of the <i>Purchase Price</i> of the <i>Lot</i> irrespective in any case of the nature, volume or source of any loss or damage alleged to be suffered or sum claimed as due, and irrespective of whether the liability arises from any negligence, other tort, breach of contract, statutory duty, bailee's duty, restitutionary claim or otherwise.	10.9	References to the singular will include reference to the plural (and vice versa) and reference to any one gender will include reference to the other genders.
8.1.6	to be paid interest on any monies due (after as well as before judgement or order) at the annual rate of 5% per annum above the base rate of National Westminster Bank Plc from time to time to be calculated on a daily basis from the date upon which such monies become payable until the date of actual payment;	9.4	Nothing set out in paragraphs 9.1 to 9.3 above will be construed as excluding or restricting (whether directly or indirectly) any person's liability or excluding or restricting any person's rights or remedies in respect of (i) fraud, or (ii) death or personal injury caused by the <i>Seller's</i> negligence (or any person under the <i>Seller's</i> control or for whom the <i>Seller</i> is legally responsible), or (iii) acts or omissions for which the <i>Seller</i> is liable under the Occupiers Liability Act 1957, or (iv) any other liability to the extent the same may not be excluded or restricted as a matter of law.	10.10	Reference to a numbered paragraph is to a paragraph of the <i>Contract for Sale</i> .
8.1.7	to repossess the <i>Lot</i> (or any part thereof) which has not become your property, and for this purpose (unless the <i>Buyer</i> buys the <i>Lot</i> as a <i>Consumer</i> from the <i>Seller</i> selling in the course of a <i>Business</i>) you hereby grant an irrevocable licence to the <i>Seller</i> by himself and to his servants or agents to enter upon all or any of your premises (with or without vehicles) during normal <i>Business</i> hours to take possession of the <i>Lot</i> or part thereof;			10.11	Save as expressly provided in paragraph 10.12 nothing in the <i>Contract for Sale</i> confers (or purports to confer) on any person who is not a party to the <i>Contract for Sale</i> any benefit conferred by, or the right to enforce any term of, the <i>Contract for Sale</i> .
8.1.8	to retain possession of any other property sold to you by the <i>Seller</i> at the <i>Sale</i> or any other auction or by private treaty until all sums due under the <i>Contract for Sale</i> shall have been paid in full in cleared funds;			10.12	Where the <i>Contract for Sale</i> confers an immunity from, and/or an exclusion or restriction of, the responsibility and/or liability of the <i>Seller</i> , it will also operate in favour and for the benefit of <i>Bonhams</i> , <i>Bonhams'</i> holding company and the subsidiaries of such holding company and the successors and assigns of <i>Bonhams</i> and of such companies and of any officer, employee and agent of <i>Bonhams</i> and such companies, each of whom will be entitled to rely on the relevant immunity and/or exclusion and/or restriction within and for the purposes of Contracts (Rights of Third Parties) Act 1999, which enables the benefit of a contract to be extended to a person who is not a party to the contract, and generally at law.
8.1.9	to retain possession of, and on three months' written notice to sell, <i>Without Reserve</i> , any of your other property in the possession of the <i>Seller</i> and/or of <i>Bonhams</i> (as bailee for the <i>Seller</i>) for any purpose (including, without limitation, other goods sold to you) and to apply any monies due to you as a result of such <i>Sale</i> in satisfaction or part satisfaction of any amounts owed to the <i>Seller</i> or to <i>Bonhams</i> ; and			11	GOVERNING LAW
8.1.10	so long as such goods remain in the possession of the <i>Seller</i> or <i>Bonhams</i> as its bailee, to rescind the contract for the <i>Sale</i> of any other goods sold to you by the <i>Seller</i> at the <i>Sale</i> or at any other auction or by private treaty and apply any monies received from you in respect of such goods in part or full satisfaction of any amounts owed to the <i>Seller</i> or to <i>Bonhams</i> by you.				All transactions to which the <i>Contract for Sale</i> applies and all connected matters will be governed by and construed in accordance with the laws of that part of the United Kingdom where the <i>Sale</i> takes place and the <i>Seller</i> and you each submit to the exclusive jurisdiction of the courts of that part of the United Kingdom, save that the <i>Seller</i> may bring proceedings against you in any other court of competent jurisdiction to the extent permitted by the laws of the relevant jurisdiction. <i>Bonhams</i> has a complaints procedure in place.
8.2	You agree to indemnify the <i>Seller</i> against all legal and other costs of enforcement, all losses and other <i>Expenses</i> and costs (including any monies payable to <i>Bonhams</i> in order to obtain the release of the <i>Lot</i>) incurred by the <i>Seller</i> (whether or not court proceedings will have been issued) as a result of <i>Bonhams</i> taking steps under this paragraph 8 on a full indemnity basis together with interest thereon (after as well as before judgement or order) at the rate specified in paragraph 8.1.6 from the date upon which the <i>Seller</i> becomes liable to pay the same until payment by you.	10	MISCELLANEOUS		
8.3	On any resale of the <i>Lot</i> under paragraph 8.1.2, the <i>Seller</i> will account to you in respect of any balance remaining from any monies received by him or on his behalf in respect of the <i>Lot</i> , after the payment of all sums due to the <i>Seller</i> and to <i>Bonhams</i> , within 28 days of receipt of such monies by him or on his behalf.	10.1	You may not assign either the benefit or burden of the <i>Contract for Sale</i> .		
		10.2	The <i>Seller's</i> failure or delay in enforcing or exercising any power or right under the <i>Contract for Sale</i> will not operate or be deemed to operate as a waiver of his rights under it except to the extent of any express waiver given to you in writing. Any such waiver will not affect the <i>Seller's</i> ability subsequently to enforce any right arising under the <i>Contract for Sale</i> .		

APPENDIX 2

BUYER'S AGREEMENT

IMPORTANT: These terms may be changed in advance of the *Sale* of the *Lot* to you, by the setting out of different terms in the *Catalogue* for the *Sale* and/or by placing an insert in the *Catalogue* and/or by notices at the *Sale* venue and/or by oral announcements before and during the *Sale* at the *Sale* venue. You should be alert to this possibility of changes and ask in advance of bidding if there have been any.

1 THE CONTRACT

- 1.1 These terms govern the contract between *Bonhams* personally and the *Buyer*, being the person to whom a *Lot* has been knocked down by the *Auctioneer*.
- 1.2 The Definitions and Glossary contained in Appendix 3 to the *Catalogue* for the *Sale* are incorporated into this agreement and a separate copy can also be provided by us on request. Where words and phrases which are defined in the List of Definitions are used in this agreement, they are printed in italics. Reference is made in this agreement to information printed in the *Notice to Bidders*, printed in the *Catalogue* for the *Sale*, and where such information is referred to it is incorporated into this agreement.
- 1.3 Except as specified in paragraph 4 of the *Notice to Bidders* the *Contract for Sale* of the *Lot* between you and the *Seller* is made on the fall of the *Auctioneer's* hammer in respect of the *Lot*, when it is knocked down to you. At that moment a separate contract is also made between you and *Bonhams* on the terms in this *Buyer's Agreement*.
- 1.4 We act as agents for the *Seller* and are not answerable or personally responsible to you for any breach of contract or other default by the *Seller*, unless *Bonhams* sells the *Lot* as principal.
- 1.5 Our personal obligations to you are governed by this agreement and we agree, subject to the terms below, to the following obligations:
- 1.5.1 we will, until the date and time specified in the *Notice to Bidders* or otherwise notified to you, store the *Lot* in accordance with paragraph 5;
- 1.5.2 subject to any power of the *Seller* or us to refuse to release the *Lot* to you, we will release the *Lot* to you in accordance with paragraph 4 once you have paid to us, in cleared funds, everything due to us and the *Seller*;
- 1.5.3 we will provide guarantees in the terms set out in paragraphs 9 and 10.
- 1.6 We do not make or give and do not agree to make or give any contractual promise, undertaking, obligation, *Guarantee*, warranty, representation of fact in relation to any *Description* of the *Lot* or any *Estimate* in relation to it, nor of the accuracy or completeness of any *Description* or *Estimate* which may have been made by us or on our behalf or by or on behalf of the *Seller* (whether made orally or in writing, including in the *Catalogue* or on *Bonhams' Website*, or by conduct, or otherwise), and whether made before or after this agreement or prior to or during the *Sale*. No such *Description* or *Estimate* is incorporated into this agreement between you and us. Any such *Description* or *Estimate*, if made by us or on our behalf, was (unless *Bonhams* itself sells the *Lot* as principal) made as agent on behalf of the *Seller*.

2 PERFORMANCE OF THE CONTRACT FOR SALE

You undertake to us personally that you will observe and comply with all your obligations and undertakings to the *Seller* under the *Contract for Sale* in respect of the *Lot*.

3 PAYMENT

- 3.1 Unless agreed in writing between you and us or as otherwise set out in the *Notice to Bidders*, you must pay to us by not later than 4.30pm on the second working day following the *Sale*:
- 3.1.1 the *Purchase Price* for the *Lot*;
- 3.1.2 a *Buyer's Premium* in accordance with the rates set out in the *Notice to Bidders*, and
- 3.1.3 if the *Lot* is marked [AP], an *Additional Premium* which is calculated and payable in accordance with the *Notice to Bidders* together with *VAT* on that sum if applicable so that all sums due to us are cleared funds by the seventh working day after the *Sale*.
- 3.2 You must also pay us on demand any *Expenses* payable pursuant to this agreement.
- 3.3 All payments to us must be made in the currency in which the *Sale* was conducted, using, unless otherwise agreed by us in writing, one of the methods of payment set out in the *Notice to Bidders*. Our invoices will only be addressed to the registered *Bidder* unless the *Bidder* is acting as an agent for a named principal and we have approved that arrangement, in which case we will address the invoice to the principal.
- 3.4 Unless otherwise stated in this agreement all sums payable to us will be subject to *VAT* at the appropriate rate and *VAT* will be payable by you on all such sums.
- 3.5 We may deduct and retain for our own benefit from the monies paid by you to us the *Buyer's Premium*, the *Commission* payable by the *Seller* in respect of the *Lot*, any *Expenses* and *VAT* and any interest earned and/or incurred until payment to the *Seller*.
- 3.6 Time will be of the essence in relation to any payment payable to us. If you do not pay the *Purchase Price*, or any other sum due to us in accordance with this paragraph 3, we will have the rights set out in paragraph 7 below.
- 3.7 Where a number of *Lots* have been knocked down to you, any monies we receive from you will be applied firstly pro-rata to pay the *Purchase Price* of each *Lot* and secondly pro-rata to pay all amounts due to *Bonhams*.

4 COLLECTION OF THE LOT

- 4.1 Subject to any power of the *Seller* or us to refuse to release the *Lot* to you, once you have paid to us, in cleared funds, everything due to the *Seller* and to us, we will release the *Lot* to you or as you may direct us in writing. The *Lot* will only be released on production of a buyer collection document, obtained from our cashier's office.
- 4.2 You must collect and remove the *Lot* at your own expense by the date and time specified in the *Notice to Bidders*, or if no date is specified, by 4.30pm on the seventh day after the *Sale*.
- 4.3 For the period referred to in paragraph 4.2, the *Lot* can be collected from the address referred to in the *Notice to Bidders* for collection on the days and times specified in the *Notice to Bidders*. Thereafter, the *Lot* may be removed elsewhere for storage and you must enquire from us as to when and where you can collect it, although this information will usually be set out in the *Notice to Bidders*.

- 4.4 If you have not collected the *Lot* by the date specified in the *Notice to Bidders*, you authorise us, acting as your agent and on your behalf, to enter into a contract (the "*Storage Contract*") with the *Storage Contractor* for the storage of the *Lot* on the then current standard terms and conditions agreed between *Bonhams* and the *Storage Contractor* (copies of which are available on request). If the *Lot* is stored at our premises storage fees at our current daily rates (currently a minimum of £3 plus *VAT* per *Lot* per day) will be payable from the expiry of the period referred to in paragraph 4.2. These storage fees form part of our *Expenses*.
- 4.5 Until you have paid the *Purchase Price* and any *Expenses* in full the *Lot* will either be held by us as agent on behalf of the *Seller* or held by the *Storage Contractor* as agent on behalf of the *Seller* and ourselves on the terms contained in the *Storage Contract*.
- 4.6 You undertake to comply with the terms of any *Storage Contract* and in particular to pay the charges (and all costs of moving the *Lot* into storage) due under any *Storage Contract*. You acknowledge and agree that you will not be able to collect the *Lot* from the *Storage Contractor's* premises until you have paid the *Purchase Price*, any *Expenses* and all charges due under the *Storage Contract*.
- 4.7 You will be wholly responsible for packing, handling and transport of the *Lot* on collection and for complying with all import or export regulations in connection with the *Lot*.
- 4.8 You will be wholly responsible for any removal, storage, or other charges for any *Lot* not removed in accordance with paragraph 4.2, payable at our current rates, and any *Expenses* we incur (including any charges due under the *Storage Contract*), all of which must be paid by you on demand and in any event before any collection of the *Lot* by you or on your behalf.

5 STORING THE LOT

We agree to store the *Lot* until the earlier of your removal of the *Lot* or until the time and date set out in the *Notice to Bidders*, on the *Sale Information Page* or at the back of the catalogue (or if no date is specified, by 4.30pm on the seventh day after the *Sale*) and, subject to paragraphs 6 and 10, to be responsible as *bailee* to you for damage to or the loss or destruction of the *Lot* (notwithstanding that it is not your property before payment of the *Purchase Price*). If you do not collect the *Lot* before the time and date set out in the *Notice to Bidders* (or if no date is specified, by 4.30pm on the seventh day after the *Sale*) we may remove the *Lot* to another location, the details of which will usually be set out in the relevant section of the *Catalogue*. If you have not paid for the *Lot* in accordance with paragraph 3, and the *Lot* is moved to any third party's premises, the *Lot* will be held by such third party strictly to *Bonhams'* order and we will retain our lien over the *Lot* until we have been paid in full in accordance with paragraph 3.

6 RESPONSIBILITY FOR THE LOT

- 6.1 Only on the payment of the *Purchase Price* to us will title in the *Lot* pass to you. However under the *Contract for Sale*, the risk in the *Lot* passed to you when it was knocked down to you.
- 6.2 You are advised to obtain insurance in respect of the *Lot* as soon as possible after the *Sale*.

7	FAILURE TO PAY OR TO REMOVE THE LOT AND PART PAYMENTS		
7.1	If all sums payable to us are not so paid in full at the time they are due and/or the <i>Lot</i> is not removed in accordance with this agreement, we will without further notice to you be entitled to exercise one or more of the following rights (without prejudice to any rights we may exercise on behalf of the <i>Seller</i>):	7.3	If you pay us only part of the sums due to us such payment shall be applied firstly to the <i>Purchase Price</i> of the <i>Lot</i> (or where you have purchased more than one <i>Lot</i> pro-rata towards the <i>Purchase Price</i> of each <i>Lot</i>) and secondly to the <i>Buyer's Premium</i> (or where you have purchased more than one <i>Lot</i> pro-rata to the <i>Buyer's Premium</i> on each <i>Lot</i>) and thirdly to any other sums due to us.
7.1.1	to terminate this agreement immediately for your breach of contract;	7.4	We will account to you in respect of any balance we hold remaining from any monies received by us in respect of any <i>Sale</i> of the <i>Lot</i> under our rights under this paragraph 7 after the payment of all sums due to us and/or the <i>Seller</i> within 28 days of receipt by us of all such sums paid to us.
7.1.2	to retain possession of the <i>Lot</i> ;	8	CLAIMS BY OTHER PERSONS IN RESPECT OF THE LOT
7.1.3	to remove, and/or store the <i>Lot</i> at your expense;	8.1	Whenever it becomes apparent to us that the <i>Lot</i> is the subject of a claim by someone other than you and other than the <i>Seller</i> (or that such a claim can reasonably be expected to be made), we may, at our absolute discretion, deal with the <i>Lot</i> in any manner which appears to us to recognise the legitimate interests of ourselves and the other parties involved and lawfully to protect our position and our legitimate interests. Without prejudice to the generality of the discretion and by way of example, we may:
7.1.4	to take legal proceedings against you for payment of any sums payable to us by you (including the <i>Purchase Price</i>) and/or damages for breach of contract;	8.1.1	retain the <i>Lot</i> to investigate any question raised or reasonably expected by us to be raised in relation to the <i>Lot</i> ; and/or
7.1.5	to be paid interest on any monies due to us (after as well as before judgement or order) at the annual rate of 5% per annum above the base lending rate of National Westminster Bank Plc from time to time to be calculated on a daily basis from the date upon which such monies become payable until the date of actual payment;	8.1.2	deliver the <i>Lot</i> to a person other than you; and/or
7.1.6	to repossess the <i>Lot</i> (or any part thereof) which has not become your property, and for this purpose (unless you buy the <i>Lot</i> as a <i>Consumer</i>) you hereby grant an irrevocable licence to us, by ourselves, our servants or agents, to enter upon all or any of your premises (with or without vehicles) during normal business hours to take possession of any <i>Lot</i> or part thereof;	8.1.3	commence interpleader proceedings or seek any other order of any court, mediator, arbitrator or government body; and/or
7.1.7	to sell the <i>Lot Without Reserve</i> by auction, private treaty or any other means on giving you three months' written notice of our intention to do so;	8.1.4	require an indemnity and/or security from you in return for pursuing a course of action agreed to by you.
7.1.8	to retain possession of any of your other property in our possession for any purpose (including, without limitation, other goods sold to you or with us for <i>Sale</i>) until all sums due to us have been paid in full;	8.2	The discretion referred to in paragraph 8.1:
7.1.9	to apply any monies received from you for any purpose whether at the time of your default or at any time thereafter in payment or part payment of any sums due to us by you under this agreement;	8.2.1	may be exercised at any time during which we have actual or constructive possession of the <i>Lot</i> , or at any time after such possession, where the cessation of such possession has occurred by reason of any decision, order or ruling of any court, mediator, arbitrator or government body; and
7.1.10	on three months' written notice to sell, <i>Without Reserve</i> , any of your other property in our possession or under our control for any purpose (including other goods sold to you or with us for <i>Sale</i>) and to apply any monies due to you as a result of such <i>Sale</i> in payment or part payment of any amounts owed to us;	8.2.2	will not be exercised unless we believe that there exists a serious prospect of a good arguable case in favour of the claim.
7.1.11	refuse to allow you to register for a future <i>Sale</i> or to reject a bid from you at any future <i>Sale</i> or to require you to pay a deposit before any bid is accepted by us at any future <i>Sale</i> in which case we will be entitled to apply such deposit in payment or part payment, as the case may be, of the <i>Purchase Price</i> of any <i>Lot</i> of which you are the <i>Buyer</i> .	9	FORGERIES
7.2	You agree to indemnify us against all legal and other costs, all losses and all other <i>Expenses</i> (whether or not court proceedings will have been issued) incurred by us as a result of our taking steps under this paragraph 7 on a full indemnity basis together with interest thereon (after as well as before judgement or order) at the rate specified in paragraph 7.1.5 from the date upon which we become liable to pay the same until payment by you.	9.1	We undertake a personal responsibility for any <i>Forgery</i> in accordance with the terms of this paragraph 9.
		9.2	Paragraph 9 applies only if:
		9.2.1	your name appears as the named person to whom the original invoice was made out by us in respect of the <i>Lot</i> and that invoice has been paid; and
		9.2.2	you notify us in writing as soon as reasonably practicable after you have become aware that the <i>Lot</i> is or may be a <i>Forgery</i> , and in any event within one year after the <i>Sale</i> , that the <i>Lot</i> is a <i>Forgery</i> ; and
		9.2.3	within one month after such notification has been given, you return the <i>Lot</i> to us in the same condition as it was at the time of the <i>Sale</i> , accompanied by written evidence that the <i>Lot</i> is a <i>Forgery</i> and details of the <i>Sale</i> and <i>Lot</i> number sufficient to identify the <i>Lot</i> .
		9.3	Paragraph 9 will not apply in respect of a <i>Forgery</i> if:
		9.3.1	the <i>Entry</i> in relation to the <i>Lot</i> contained in the <i>Catalogue</i> reflected the then accepted general opinion of scholars and experts or fairly indicated that there was a conflict of such opinion or reflected the then current opinion of an expert acknowledged to be a leading expert in the relevant field; or
		9.3.2	it can be established that the <i>Lot</i> is a <i>Forgery</i> only by means of a process not generally accepted for use until after the date on which the <i>Catalogue</i> was published or by means of a process which it was unreasonable in all the circumstances for us to have employed.
		9.4	You authorise us to carry out such processes and tests on the <i>Lot</i> as we in our absolute discretion consider necessary to satisfy ourselves that the <i>Lot</i> is or is not a <i>Forgery</i> .
		9.5	If we are satisfied that a <i>Lot</i> is a <i>Forgery</i> we will (as principal) purchase the <i>Lot</i> from you and you will transfer the title to the <i>Lot</i> in question to us, with full title guarantee, free from any liens, charges, encumbrances and adverse claims, in accordance with the provisions of Sections 12(1) and 12(2) of the Sale of Goods Act 1979 and we will pay to you an amount equal to the sum of the <i>Purchase Price</i> , <i>Buyer's Premium</i> , <i>VAT</i> and <i>Expenses</i> paid by you in respect of the <i>Lot</i> .
		9.6	The benefit of paragraph 9 is personal to, and incapable of assignment by, you.
		9.7	If you sell or otherwise dispose of your interest in the <i>Lot</i> , all rights and benefits under this paragraph will cease.
		9.8	Paragraph 9 does not apply to a <i>Lot</i> made up of or including a Chinese painting or Chinese paintings, a motor vehicle or motor vehicles, a <i>Stamp</i> or <i>Stamps</i> or a <i>Book</i> or <i>Books</i> .
		10	OUR LIABILITY
		10.1	We will not be liable whether in negligence, other tort, breach of contract or statutory duty or in restitution or under the Misrepresentation Act 1967 or in any other way for lack of conformity with or any inaccuracy, error, misdescription or omission in any <i>Description</i> of the <i>Lot</i> or any <i>Entry</i> or <i>Estimate</i> in respect of it, made by us or on our behalf or by or on behalf of the <i>Seller</i> (whether made in writing, including in the <i>Catalogue</i> , or on the <i>Bonhams' Website</i> , or orally, or by conduct or otherwise) and whether made before or after this agreement or prior to or during the <i>Sale</i> .
		10.2	Our duty to you while the <i>Lot</i> is at your risk and/or your property and in our custody and/or control is to exercise reasonable care in relation to it, but we will not be responsible for damage to the <i>Lot</i> or to other persons or things caused by:
		10.2.1	handling the <i>Lot</i> if it was affected at the time of <i>Sale</i> to you by woodworm and any damage is caused as a result of it being affected by woodworm; or
		10.2.2	changes in atmospheric pressure; nor will we be liable for:
		10.2.3	damage to tension stringed musical instruments; or
		10.2.4	damage to gilded picture frames, plaster picture frames or picture frame glass; and if the <i>Lot</i> is or becomes dangerous, we may dispose of it without notice to you in advance in any manner we think fit and we will be under no liability to you for doing so.

10.3.1	We will not be liable to you for any loss of <i>Business</i> , <i>Business</i> profits, revenue or income or for loss of <i>Business</i> reputation or for disruption to <i>Business</i> or wasted time on the part of the <i>Buyer's</i> management or staff or, if you are buying the <i>Lot</i> in the course of a <i>Business</i> , for any indirect losses or consequential damages of any kind, irrespective in any case of the nature, volume or source of the loss or damage alleged to be suffered, and irrespective of whether the said loss or damage is caused by or claimed in respect of any negligence, other tort, breach of contract, statutory duty, bailee's duty, a restitutionary claim or otherwise.	the <i>Entry</i> in the <i>Catalogue</i> in respect of the <i>Lot</i> reflected the then accepted general opinion of scholars and experts or fairly indicated that there was a conflict of such opinion; or	12.7	The headings used in this agreement are for convenience only and will not affect its interpretation.
10.3.2	Unless you buy the <i>Lot</i> as a <i>Consumer</i> , in any circumstances where we are liable to you in respect of a <i>Lot</i> , or any act, omission, statement, representation in respect of it, or this agreement or its performance, and whether in damages, for an indemnity or contribution or for a restitutionary remedy or in any way whatsoever, our liability will be limited to payment of a sum which will not exceed by way of maximum the amount of the <i>Purchase Price</i> of the <i>Lot</i> plus <i>Buyer's Premium</i> (less any sum you may be entitled to recover from the <i>Seller</i>) irrespective in any case of the nature, volume or source of any loss or damage alleged to be suffered or sum claimed as due, and irrespective of whether the liability arises from negligence, other tort, breach of contract, statutory duty, bailee's duty, a restitutionary claim or otherwise.	it can be established that the <i>Lot</i> is a non-conforming <i>Lot</i> only by means of a process not generally accepted for use until after the date on which the <i>Catalogue</i> was published or by means of a process which it was unreasonable in all the circumstances for us to have employed; or	12.8	In this agreement "including" means "including, without limitation".
	You may wish to protect yourself against loss by obtaining insurance.	the <i>Lot</i> comprises atlases, maps, autographs, manuscripts, extra illustrated books, music or periodical publications; or	12.9	References to the singular will include reference to the plural (and vice versa) and reference to any one gender will include reference to the other genders.
10.4	Nothing set out above will be construed as excluding or restricting (whether directly or indirectly) any person's liability or excluding or restricting any person's rights or remedies in respect of (i) fraud, or (ii) death or personal injury caused by our negligence (or any person under our control or for whom we are legally responsible), or (iii) acts or omissions for which we are liable under the Occupiers Liability Act 1957, or (iv) any other liability to the extent the same may not be excluded or restricted as a matter of law, or (v) under our undertaking in paragraph 9 of these conditions.	the <i>Lot</i> was listed in the <i>Catalogue</i> under "collections" or "collections and various" or the <i>Lot</i> was stated in the <i>Catalogue</i> to comprise or contain a collection, issue or <i>Books</i> which are undescribed or the missing text or illustrations are referred to or the relevant parts of the <i>Book</i> contain blanks, half titles or advertisements.	12.10	Reference to a numbered paragraph is to a paragraph of this agreement.
11	BOOKS MISSING TEXT OR ILLUSTRATIONS Where the <i>Lot</i> is made up wholly of a <i>Book</i> or <i>Books</i> and any <i>Book</i> does not contain text or illustrations (in either case referred to as a "non-conforming <i>Lot</i> "), we undertake a personal responsibility for such a non-conforming <i>Lot</i> in accordance with the terms of this paragraph, if: the original invoice was made out by us to you in respect of the <i>Lot</i> and that invoice has been paid; and you notify us in writing as soon as reasonably practicable after you have become aware that the <i>Lot</i> is or may be a non-conforming <i>Lot</i> , and in any event within 20 days after the <i>Sale</i> (or such longer period as we may agree in writing) that the <i>Lot</i> is a non-conforming <i>Lot</i> ; and within 20 days of the date of the relevant <i>Sale</i> (or such longer period as we may agree in writing) you return the <i>Lot</i> to us in the same condition as it was at the time of the <i>Sale</i> , accompanied by written evidence that the <i>Lot</i> is a non-conforming <i>Lot</i> and details of the <i>Sale</i> and <i>Lot</i> number sufficient to identify the <i>Lot</i> . but not if: the <i>Entry</i> in the <i>Catalogue</i> in respect of the <i>Lot</i> indicates that the rights given by this paragraph do not apply to it; or	If we are reasonably satisfied that a <i>Lot</i> is a non-conforming <i>Lot</i> , we will (as principal) purchase the <i>Lot</i> from you and you will transfer the title to the <i>Lot</i> in question to us, with full title guarantee, free from any liens, charges, encumbrances and adverse claims and we will pay to you an amount equal to the sum of the <i>Purchase Price</i> and <i>Buyer's Premium</i> paid by you in respect of the <i>Lot</i> . The benefit of paragraph 10 is personal to, and incapable of assignment by, you and if you sell or otherwise dispose of your interest in the <i>Lot</i> , all rights and benefits under this paragraph will cease.	12.11	Save as expressly provided in paragraph 12.12 nothing in this agreement confers (or purports to confer) on any person who is not a party to this agreement any benefit conferred by, or the right to enforce any term of, this agreement.
			12.12	Where this agreement confers an immunity from, and/or an exclusion or restriction of, the responsibility and/or liability of <i>Bonhams</i> , it will also operate in favour and for the benefit of <i>Bonhams'</i> holding company and the subsidiaries of such holding company and the successors and assigns of <i>Bonhams</i> and of such companies and of any officer, employee and agent of <i>Bonhams</i> and such companies, each of whom will be entitled to rely on the relevant immunity and/or exclusion and/or restriction within and for the purposes of Contracts (Rights of Third Parties) Act 1999, which enables the benefit of a contract to be extended to a person who is not a party to the contract, and generally at law.
		12 MISCELLANEOUS	13	GOVERNING LAW All transactions to which this agreement applies and all connected matters will be governed by and construed in accordance with the laws of that part of the United Kingdom where the <i>Sale</i> takes (or is to take) place and we and you each submit to the exclusive jurisdiction of the courts of that part of the United Kingdom, save that we may bring proceedings against you in any other court of competent jurisdiction to the extent permitted by the laws of the relevant jurisdiction. <i>Bonhams</i> has a complaints procedure in place.
		12.1 You may not assign either the benefit or burden of this agreement.		DATA PROTECTION – USE OF YOUR INFORMATION Where we obtain any personal information about you, we shall only use it in accordance with the terms of our Privacy Policy (subject to any additional specific consent(s) you may have given at the time your information was disclosed). A copy of our Privacy Policy can be found on our <i>Website</i> www.bonhams.com or requested by post from Customer Services Department, 101 New Bond Street, London W1S 1SR, United Kingdom or by email from info@bonhams.com.
		12.2 Our failure or delay in enforcing or exercising any power or right under this agreement will not operate or be deemed to operate as a waiver of our rights under it except to the extent of any express waiver given to you in writing. Any such waiver will not affect our ability subsequently to enforce any right arising under this agreement.		APPENDIX 3
		12.3 If either party to this agreement is prevented from performing that party's respective obligations under this agreement by circumstances beyond its reasonable control or if performance of its obligations would by reason of such circumstances give rise to a significantly increased financial cost to it, that party will not, for so long as such circumstances prevail, be required to perform such obligations. This paragraph does not apply to the obligations imposed on you by paragraph 3.		DEFINITIONS AND GLOSSARY Where these Definitions and Glossary are incorporated, the following words and phrases used have (unless the context otherwise requires) the meanings given to them below. The Glossary is to assist you to understand words and phrases which have a specific legal meaning with which you may not be familiar.
		12.4 Any notice or other communication to be given under this agreement must be in writing and may be delivered by hand or sent by first class post or air mail or fax transmission (if to <i>Bonhams</i> marked for the attention of the Company Secretary), to the address or fax number of the relevant party given in the <i>Contract Form</i> (unless notice of any change of address is given in writing). It is the responsibility of the sender of the notice or communication to ensure that it is received in a legible form within any applicable time period.		LIST OF DEFINITIONS "Additional Premium" a premium, calculated in accordance with the <i>Notice to Bidders</i> , to cover <i>Bonhams' Expenses</i> relating to the payment of royalties under the Artists Resale Right Regulations 2006 which is payable by the <i>Buyer</i> to <i>Bonhams</i> on any <i>Lot</i> marked [AR] which sells for a <i>Hammer Price</i> which together with the <i>Buyer's Premium</i> (but excluding any VAT) equals or exceeds 1000 euros (converted into the currency of the <i>Sale</i> using the European Central Bank Reference rate prevailing on the date of the <i>Sale</i>). "Auctioneer" the representative of <i>Bonhams</i> conducting the <i>Sale</i> .
		12.5 If any term or any part of any term of this agreement is held to be unenforceable or invalid, such unenforceability or invalidity will not affect the enforceability and validity of the remaining terms or the remainder of the relevant term.		
		12.6 References in this agreement to <i>Bonhams</i> will, where appropriate, include reference to <i>Bonhams'</i> officers, employees and agents.		

"Bidder" a person who has completed a *Bidding Form*.

"Bidding Form" our Bidding Registration Form, our Absentee Bidding Form or our Telephone Bidding Form.

"Bonhams" Bonhams 1793 Limited or its successors or assigns. *Bonhams* is also referred to in the *Buyer's Agreement*, the Conditions of Business and the *Notice to Bidders* by the words "we", "us" and "our".

"Book" a printed *Book* offered for *Sale* at a specialist *Book Sale*.

"Business" includes any trade, *Business* and profession.

"Buyer" the person to whom a *Lot* is knocked down by the *Auctioneer*. The *Buyer* is also referred to in the *Contract for Sale* and the *Buyer's Agreement* by the words "you" and "your".

"Buyer's Agreement" the contract entered into by *Bonhams* with the *Buyer* (see Appendix 2 in the *Catalogue*).

"Buyer's Premium" the sum calculated on the *Hammer Price* at the rates stated in the *Notice to Bidders*.

"Catalogue" the *Catalogue* relating to the relevant *Sale*, including any representation of the *Catalogue* published on our *Website*.

"Commission" the *Commission* payable by the *Seller* to *Bonhams* calculated at the rates stated in the *Contract Form*.

"Condition Report" a report on the physical condition of a *Lot* provided to a *Bidder* or potential *Bidder* by *Bonhams* on behalf of the *Seller*.

"Conditions of Sale" the *Notice to Bidders*, *Contract for Sale*, *Buyer's Agreement* and Definitions and Glossary.

"Consignment Fee" a fee payable to *Bonhams* by the *Seller* calculated at rates set out in the Conditions of Business.

"Consumer" a natural person who is acting for the relevant purpose outside his trade, *Business* or profession.

"Contract Form" the *Contract Form*, or vehicle *Entry* form, as applicable, signed by or on behalf of the *Seller* listing the *Lots* to be offered for *Sale* by *Bonhams*.

"Contract for Sale" the *Sale* contract entered into by the *Seller* with the *Buyer* (see Appendix 1 in the *Catalogue*).

"Contractual Description" the only *Description* of the *Lot* (being that part of the *Entry* about the *Lot* in the *Catalogue* which is in bold letters, any photograph (except for the colour) and the contents of any *Condition Report*) to which the *Seller* undertakes in the *Contract for Sale* the *Lot* corresponds.

"Description" any statement or representation in any way descriptive of the *Lot*, including any statement or representation relating to its authorship, attribution, condition, provenance, authenticity, style, period, age, suitability, quality, origin, value, estimated selling price (including the *Hammer Price*).

"Entry" a written statement in the *Catalogue* identifying the *Lot* and its *Lot* number which may contain a *Description* and illustration(s) relating to the *Lot*.

"Estimate" a statement of our opinion of the range within which the hammer is likely to fall.

"Expenses" charges and *Expenses* paid or payable by *Bonhams* in respect of the *Lot* including legal *Expenses*, banking charges and *Expenses* incurred as a result of an electronic transfer of money, charges and *Expenses* for loss and damage cover, insurance, *Catalogue* and other reproductions and illustrations, any customs duties, advertising, packing or shipping costs, reproductions rights' fees, taxes, levies, costs of testing, searches or enquiries, preparation of the *Lot* for *Sale*, storage charges, removal charges, removal charges or costs of collection from the *Seller* as the *Seller's* agents or from a defaulting *Buyer*, plus *VAT* if applicable.

"Forgery" an imitation intended by the maker or any other person to deceive as to authorship, attribution, origin, authenticity, style, date, age, period, provenance, culture, source or composition, which at the date of the *Sale* had a value materially less than it would have had if the *Lot* had not been such an imitation, and which is not stated to be such an imitation in any description of the *Lot*. A *Lot* will not be a *Forgery* by reason of any damage to, and/or restoration and/or modification work (including repainting or over painting) having been carried out on the *Lot*, where that damage, restoration or modification work (as the case may be) does not substantially affect the identity of the *Lot* as one conforming to the *Description* of the *Lot*.

"Guarantee" the obligation undertaken personally by *Bonhams* to the *Buyer* in respect of any *Forgery* and, in the case of specialist *Stamp Sales* and/or specialist *Book Sales*, a *Lot* made up of a *Stamp* or *Stamps* or a *Book* or *Books* as set out in the *Buyer's Agreement*.

"Hammer Price" the price in the currency in which the *Sale* is conducted at which a *Lot* is knocked down by the *Auctioneer*.

"Loss and Damage Warranty" means the warranty described in paragraph 8.2 of the Conditions of Business.

"Loss and Damage Warranty Fee" means the fee described in paragraph 8.2.3 of the Conditions of Business.

"Lot" any item consigned to *Bonhams* with a view to its *Sale* at auction or by private treaty (and reference to any *Lot* will include, unless the context otherwise requires, reference to individual items comprised in a group of two or more items offered for *Sale* as one *Lot*).

"Motoring Catalogue Fee" a fee payable by the *Seller* to *Bonhams* in consideration of the additional work undertaken by *Bonhams* in respect of the cataloguing of motor vehicles and in respect of the promotion of *Sales* of motor vehicles.

"New Bond Street" means *Bonhams'* saleroom at 101 New Bond Street, London W1S 1SR.

"Notional Charges" the amount of *Commission* and *VAT* which would have been payable if the *Lot* had been sold at the *Notional Price*.

"Notional Fee" the sum on which the *Consignment Fee* payable to *Bonhams* by the *Seller* is based and which is calculated according to the formula set out in the Conditions of Business.

"Notional Price" the latest in time of the average of the high and low *Estimates* given by us to you or stated in the *Catalogue* or, if no such *Estimates* have been given or stated, the *Reserve* applicable to the *Lot*.

"Notice to Bidders" the notice printed at the back or front of our *Catalogues*.

"Purchase Price" the aggregate of the *Hammer Price* and *VAT* on the *Hammer Price* (where applicable), the *Buyer's Premium* and *VAT* on the *Buyer's Premium* and any *Expenses*.

"Reserve" the minimum price at which a *Lot* may be sold (whether at auction or by private treaty).

"Sale" the auction *Sale* at which a *Lot* is to be offered for *Sale* by *Bonhams*.

"Sale Proceeds" the net amount due to the *Seller* from the *Sale* of a *Lot*, being the *Hammer Price* less the *Commission*, any *VAT* chargeable thereon, *Expenses* and any other amount due to us in whatever capacity and howsoever arising.

"Seller" the person who offers the *Lot* for *Sale* named on the *Contract Form*. Where the person so named identifies on the form another person as acting as his agent, or where the person named on the *Contract Form* acts as an agent for a principal (whether such agency is disclosed to *Bonhams* or not), *"Seller"* includes both the agent and the principal who shall be jointly and severally liable as such. The *Seller* is also referred to in the Conditions of Business by the words "you" and "your".

"Specialist Examination" a visual examination of a *Lot* by a specialist on the *Lot*.

"Stamp" means a postage *Stamp* offered for *Sale* at a Specialist *Stamp Sale*.

"Standard Examination" a visual examination of a *Lot* by a non-specialist member of *Bonhams'* staff.

"Storage Contract" means the contract described in paragraph 8.3.3 of the Conditions of Business or paragraph 4.4 of the *Buyer's Agreement* (as appropriate).

"Storage Contractor" means the company identified as such in the *Catalogue*.

"Terrorism" means any act or threatened act of terrorism, whether any person is acting alone or on behalf of or in connection with any organisation(s) and/or government(s), committed for political, religious or ideological or similar purposes including, but not limited to, the intention to influence any government and/or put the public or any section of the public into fear.

"Trust Account" the bank account of *Bonhams* into which all sums received in respect of the *Purchase Price* of any *Lot* will be paid, such account to be a distinct and separate account to *Bonhams'* normal business bank account.

"VAT" value added tax at the prevailing rate at the date of the *Sale* in the United Kingdom.

"Website" *Bonhams Website* at www.bonhams.com

"Withdrawal Notice" the *Seller's* written notice to *Bonhams* revoking *Bonhams'* instructions to sell a *Lot*.

"Without Reserve" where there is no minimum price at which a *Lot* may be sold (whether at auction or by private treaty).

GLOSSARY

The following expressions have specific legal meanings with which you may not be familiar. The following glossary is intended to give you an understanding of those expressions but is not intended to limit their legal meanings:

"artist's resale right": the right of the creator of a work of art to receive a payment on *Sales* of that work subsequent to the original *Sale* of that work by the creator of it as set out in the Artists Resale Right Regulations 2006.

"bailee": a person to whom goods are entrusted.

"indemnity": an obligation to put the person who has the benefit of the indemnity in the same position in which he would have been, had the circumstances giving rise to the indemnity not arisen and the expression "indemnity" is construed accordingly.

"interpleader proceedings": proceedings in the Courts to determine ownership or rights over a *Lot*.

"knocked down": when a *Lot* is sold to a *Bidder*, indicated by the fall of the hammer at the *Sale*.

"lien": a right for the person who has possession of the *Lot* to retain possession of it.

"risk": the possibility that a *Lot* may be lost, damaged, destroyed, stolen, or deteriorate in condition or value.

"title": the legal and equitable right to the ownership of a *Lot*.

"tort": a legal wrong done to someone to whom the wrong doer has a duty of care.

SALE OF GOODS ACT 1979

The following is an extract from the Sale of Goods Act 1979:

"Section 12 Implied terms about title, etc

- (1) In a contract of sale, other than one to which subsection (3) below applies, there is an implied term on the part of the seller that in the case of a sale he has a right to sell the goods, and in the case of an agreement to sell he will have such a right at the time when the property is to pass.
- (2) In a contract of sale, other than one to which subsection (3) below applies, there is also an implied term that-
 - (a) the goods are free, and will remain free until the time when the property is to pass, from any charge or encumbrance not disclosed or known to the buyer before the contract is made, and
 - (b) the buyer will enjoy quiet possession of the goods except in so far as it may be disturbed by the owner or other person entitled to the benefit of any charge or encumbrance so disclosed or known.
- (3) This subsection applies to a contract of sale in the case of which there appears from the contract or is to be inferred from its circumstances an intention that the seller should transfer only such title as he or a third person may have.
- (4) In a contract to which subsection (3) above applies there is an implied term that all charges or encumbrances known to the seller and not known to the buyer have been disclosed to the buyer before the contract is made.
- (5) In a contract to which subsection (3) above applies there is also an implied term that none of the following will disturb the buyer's quiet possession of the goods, namely:
 - (a) the seller;
 - (b) in a case where the parties to the contract intend that the seller should transfer only such title as a third person may have, that person;
 - (c) anyone claiming through or under the seller or that third person otherwise than under a charge or encumbrance disclosed or known to the buyer before the contract is made.
- (5A) As regards England and Wales and Northern Ireland, the term implied by subsection (1) above is a condition and the terms implied by subsections (2), (4) and (5) above are warranties."

Bonhams Specialist Departments

19th Century Paintings

UK
Charles O' Brien
+44 20 7468 8360
U.S.A.
Madalina Lazen
+1 212 644 9108

20th Century British Art

Matthew Bradbury
+44 20 7468 8295

Aboriginal Art

Francesca Cavazzini
+61 2 8412 2222

African, Oceanic & Pre-Columbian Art

UK
Philip Keith
+44 2920 727 980
U.S.A.
Fredric Backlar
+1 323 436 5416

American Paintings

Alan Fausel
+1 212 644 9039

Antiquities

Madeleine Perridge
+44 20 7468 8226

Antique Arms & Armour

UK
David Williams
+44 20 7393 3807
U.S.A.
Paul Carella
+1 415 503 3360

Art Collections, Estates & Valuations

Harvey Cammell
+44 (0) 20 7468 8340

Art Nouveau & Decorative Art & Design

UK
Mark Oliver
+44 20 7393 3856
U.S.A.
Frank Maraschiello
+1 212 644 9059

Australian Art

Merryn Schriever
+61 2 8412 2222
Alex Clark
+61 3 8640 4088

Australian Colonial Furniture and Australiana

+1 415 861 7500

Books, Maps & Manuscripts

UK
Matthew Haley
+44 20 7393 3817
U.S.A.
Christina Geiger
+1 212 644 9094

British & European Glass

UK
Simon Cottle
+44 20 7468 8383
U.S.A.
Suzy Pai
+1 415 503 3343

British & European Porcelain & Pottery

UK
John Sandon
+44 20 7468 8244
U.S.A.
Peter Scott
+1 415 503 3326

California & American Paintings

Scot Levitt
+1 323 436 5425

Carpets

UK
Mark Dance
+44 8700 27361
U.S.A.
Hadji Rahimpour
+1 415 503 3392

Chinese & Asian Art

UK
Asaph Hyman
+44 20 7468 5888
U.S.A.
Dessa Goddard
+1 415 503 3333
HONG KONG
+852 3607 0010
AUSTRALIA
Yvett Klein
+61 2 8412 2222

Clocks

UK
James Stratton
+44 20 7468 8364
U.S.A.
Jonathan Snellenburg
+1 212 461 6530

Coins & Medals

UK
John Millensted
+44 20 7393 3914
U.S.A.
Paul Song
+1 323 436 5455

Contemporary Art

UK
Ralph Taylor
+44 20 7447 7403
U.S.A.
Jeremy Goldsmith
+1 917 206 1656

Costume & Textiles

Claire Browne
+44 1564 732969

Entertainment Memorabilia

UK
+44 20 7393 3844
U.S.A.
Catherine Williamson
+1 323 436 5442

Furniture & Works of Art

UK
Guy Savill
+44 20 7468 8221
U.S.A.
Andrew Jones
+1 415 503 3413

Greek Art

Olympia Pappa
+44 20 7468 8314

Golf Sporting Memorabilia

Kevin McGimpsey
+44 1244 353123

Irish Art

Penny Day
+44 20 7468 8366

Impressionist & Modern Art

UK
India Phillips
+44 20 7468 8328
U.S.A.
Tanya Wells
+1 917 206 1685

Islamic & Indian Art

Claire Penhallurick
+44 20 7468 8249

Japanese Art

UK
Suzannah Yip
+44 20 7468 8368
U.S.A.
Jeff Olson
+1 212 461 6516

Jewellery

UK
Jean Ghika
+44 20 7468 8282
U.S.A.
Susan Abeles
+1 212 461 6525
AUSTRALIA
Anellie Manolas
+61 2 8412 2222
HONG KONG
Graeme Thompson
+852 3607 0006

Marine Art

UK
Veronique Scorer
+44 20 7393 3962
U.S.A.
Gregg Dietrich
+1 917 206 1697

Mechanical Music

Jon Baddeley
+44 20 7393 3872

Modern, Contemporary & Latin American Art

U.S.A.
Alexis Chompaisal
+1 323 436 5469

Modern Design

Gareth Williams
+44 20 7468 5879

To e-mail any of the below use the first name dot second
name @bonhams.com eg. charles.obrien@bonhams.com

Motor Cars

UK
Tim Schofield
+44 20 7468 5804
U.S.A.
Mark Osborne
+1 415 503 3353
EUROPE
Philip Kantor
+32 476 879 471

Automobilia

UK
Toby Wilson
+44 8700 273 619
U.S.A.
Kurt Forry
+1 415 391 4000

Motorcycles

Ben Walker
+44 8700 273616

Automobilia

Adrian Pipiros
+44 8700 273621

Musical Instruments

Philip Scott
+44 20 7393 3855

Native American Art

Jim Haas
+1 415 503 3294

Natural History

U.S.A.
Claudia Florian
+1 323 436 5437

Old Master Pictures

UK
Andrew McKenzie
+44 20 7468 8261
U.S.A.
Mark Fisher
+1 323 436 5488

Orientalist Art

Charles O'Brien
+44 20 7468 8360

Photography

U.S.A.
Judith Eurich
+1 415 503 3259

Portrait Miniatures

UK
+44 20 7393 3986

Prints and Multiples

UK
Rupert Worrall
+44 20 7468 8262
U.S.A.
Judith Eurich
+1 415 503 3259

Russian Art

UK
Daria Chernenko
+44 20 7468 8334
U.S.A.
Yelena Harbick
+1 212 644 9136

Scientific Instruments

Jon Baddeley
+44 20 7393 3872
U.S.A.
Jonathan Snellenburg
+1 212 461 6530

Scottish Pictures

Chris Brickley
+44 131 240 2297

Silver & Gold Boxes

UK
Michael Moorcroft
+44 20 7468 8241
U.S.A.
Aileen Ward
+1 800 223 5463

South African Art

Giles Peppiatt
+44 20 7468 8355

Sporting Guns

Patrick Hawes
+44 20 7393 3815

Toys & Dolls

Leigh Gotch
+44 20 8963 2839

Travel Pictures

Veronique Scorer
+44 20 7393 3962

Urban Art

Gareth Williams
+44 20 7468 5879

Watches & Wristwatches

UK
+44 20 7447 7412
U.S.A.
Jonathan Snellenburg
+1 212 461 6530
HONG KONG
Nicholas Biebuyck
+852 2918 4321

Whisky

UK
Martin Green
+44 1292 520000
U.S.A.
Joseph Hyman
+1 917 206 1661
HONG KONG
Daniel Lam
+852 3607 0004

Wine

UK
Richard Harvey
+44 (0) 20 7468 5811
U.S.A.
Doug Davidson
+1 415 503 3363
HONG KONG
Daniel Lam
+852 3607 0004

UNITED KINGDOM

London
101 New Bond Street •
London W1S 1SR
+44 20 7447 7447
+44 20 7447 7400 fax

Montpelier Street •
London SW7 1HH
+44 20 7393 3900
+44 20 7393 3905 fax

South East England

Brighton & Hove
19 Palmeira Square
Hove, East Sussex
BN3 2JN
+44 1273 220 000
+44 1273 220 335 fax

Guildford
Millmead,
Guildford,
Surrey GU2 4BE
+44 1483 504 030
+44 1483 450 205 fax

Isle of Wight
+44 1273 220 000

Representative:
Kent
George Dawes
+44 1483 504 030

West Sussex
+44 (0) 1273 220 000

South West England

Bath
Queen Square House
Charlotte Street
Bath BA1 2LL
+44 1225 788 988
+44 1225 446 675 fax

Cornwall – Truro
36 Lemon Street
Truro
Cornwall
TR1 2NR
+44 1872 250 170
+44 1872 250 179 fax

Exeter
The Lodge
Southernhay West Exeter,
Devon
EX1 1JG
+44 1392 425 264
+44 1392 494 561 fax

Winchester
The Red House
Hyde Street
Winchester
Hants SO23 7DX
+44 1962 862 515
+44 1962 865 166 fax

Tetbury
22a Long Street
Tetbury
Gloucestershire
GL8 8AQ
+44 1666 502 200
+44 1666 505 107 fax

Representatives:
Dorset
Bill Allan
+44 1935 815 271

East Anglia

Bury St. Edmunds
21 Churchgate Street
Bury St Edmunds
Suffolk IP33 1RG
+44 1284 716 190
+44 1284 755 844 fax

Norfolk
The Market Place
Reepham
Norfolk NR10 4JJ
+44 1603 871 443
+44 1603 872 973 fax

Midlands

Knowle
The Old House
Station Road
Knowle, Solihull
West Midlands
B93 0HT
+44 1564 776 151
+44 1564 778 069 fax

Oxford •
Banbury Road
Shipton on Cherwell
Kidlington OX5 1JH
+44 1865 853 640
+44 1865 372 722 fax

Yorkshire & North East England

Leeds
30 Park Square West
Leeds LS1 2PF
+44 113 234 5755
+44 113 244 3910 fax

North West England

Chester
2 St Johns Court,
Vicars Lane,
Chester,
Ch1 1QE
+44 1244 313 936
+44 1244 340 028 fax

Manchester
The Stables
213 Ashley Road
Hale WA15 9TB
+44 161 927 3822
+44 161 927 3824 fax

Channel Islands

Jersey
La Chasse
La Rue de la Vallee
St Mary
Jersey JE3 3DL
+44 1534 722 441
+44 1534 759 354 fax

Representative:
Guernsey
+44 1481 722 448

Scotland

Edinburgh •
22 Queen Street
Edinburgh
EH2 1JX
+44 131 225 2266
+44 131 220 2547 fax

Glasgow
176 St. Vincent Street,
Glasgow
G2 5SG
+44 141 223 8866
+44 141 223 8868 fax

Representatives:
Wine & Spirits
Tom Gilbey
+44 1382 330 256

Wales

Cardiff
7-8 Park Place,
Cardiff CF10 3DP
+44 2920 727 980
+44 2920 727 989 fax

EUROPE

Austria
Tuchlauben 8
1010 Vienna
+43 (0) 1 403 0001
vienna@bonhams.com

Belgium
Boulevard
Saint-Michel 101
1040 Brussels
+32 (0) 2 736 5076
belgium@bonhams.com

Denmark
Henning Thomsen
+45 4178 4799
denmark@bonhams.com

France
4 rue de la Paix
75002 Paris
+33 (0) 1 42 61 10 10
paris@bonhams.com

Germany - Cologne
Albertusstrasse 26
50667 Cologne
+49 (0) 221 2779 9650
cologne@bonhams.com

Germany - Munich
Maximilianstrasse 52
80538 Munich
+49 (0) 89 2420 5812
munich@bonhams.com

Greece
7 Neofytou Vamva Street
Athens 10674
+30 (0) 210 3636 404
athens@bonhams.com

Ireland
31 Molesworth Street
Dublin 2
+353 (0) 1 602 0990
dublin@bonhams.com

Italy - Milan
Via Boccaccio 22
20123 Milano
+39 0 2 4953 9020
milan@bonhams.com

Italy - Rome
Via Sicilia 50
00187 Roma
+39 0 6 48 5900
rome@bonhams.com

The Netherlands
De Lairessestraat 154
1075 HL Amsterdam
+31 (0) 20 67 09 701
amsterdam@bonhams.com

Portugal
Rua Bartolomeu Dias nº
160. 1º
Belem
1400-031 Lisbon
+351 218 293 291
portuga@bonhams.com

Russia – Moscow
Anastasia Vinokurova
+7 964 562 3845
russia@bonhams.com

Russia - St. Petersburg
Marina Jacobson
+7 921 555 2302
russia@bonhams.com

Spain - Barcelona
Teresa Ybarra
+34 930 087 876
barcelona@bonhams.com

Spain - Madrid
Nunez de Balboa no 4-1A
28001 Madrid
+34 915 78 17 27
madrid@bonhams.com

Spain - Marbella
James Roberts
+34 952 90 62 50
marbella@bonhams.com

Switzerland
Rue Etienne-Dumont 10
1204 Geneva
+41 (0) 22 300 3160
geneva@bonhams.com

MIDDLE EAST

Dubai
Deborah Najar
+971 (0)56 113 4146
deborah.najar@bonhams.com

Israel
Joslyne Halibard
+972 (0)54 553 5337
joslyne.halibard@
bonhams.com

NORTH AMERICA

USA

San Francisco •
220 San Bruno Avenue
San Francisco
CA 94103
+1 (415) 861 7500
+1 (415) 861 8951 fax

Los Angeles •
7601 W. Sunset Boulevard
Los Angeles
CA 90046
+1 (323) 850 7500
+1 (323) 850 6090 fax

New York •
580 Madison Avenue
New York, NY
10022
+1 (212) 644 9001
+1 (212) 644 9007 fax

Representatives:
Arizona
Terri Adrian-Hardy
+1 (480) 994 5362

California
Central Valley
David Daniel
+1 (916) 364 1645

Southern California
Christine Eisenberg
+1 (949) 646 6560

Colorado
Julie Segraves
+1 (720) 355 3737

Florida
Palm Beach
+1 (561) 651 7876
Miami
+1 (305) 228 6600
Ft. Lauderdale
+1 (954) 566 1630

Georgia
Mary Moore Bethea
+1 (404) 842 1500

Illinois
Ricki Blumberg Harris
+1 (312) 475 3922
+1 (773) 267 3300

Massachusetts
Boston/New England
Amy Corcoran
+1 (617) 742 0909

Nevada
David Daniel
+1 (775) 831 0330

New Mexico
Leslie Trilling
+1 (505) 820 0701

Oregon
Sheryl Acheson
+1(503) 312 6023

Pennsylvania
Margaret Tierney
+1 (610) 644 1199

Texas
Amy Lawch
+1 (713) 621 5988

Washington
Heather O'Mahony
+1 (206) 218 5011

Washington DC
Mid-Atlantic Region
Martin Gammon
+1 (202) 333 1696

CANADA

Toronto, Ontario •
Jack Kerr-Wilson
20 Hazelton Avenue
Toronto, ONT
M5R 2E2
+1 (416) 462 9004
info.ca@bonhams.com

Montreal, Quebec
David Kelsey
+1 (514) 341 9238
info.ca@bonhams.com

SOUTH AMERICA

Argentina
Daniel Claramunt
+54 11 479 37600

Brazil
+55 11 3031 4444
+55 11 3031 4444 fax

ASIA

Hong Kong •
Suite 2001
One Pacific Place
88 Queensway
Admiralty
Hong Kong
+852 2918 4321
+852 2918 4320 fax
hongkong@bonhams.com

Beijing
Hongyu Yu
Suite 511
Chang An Club
10 East Chang An Avenue
Beijing 100006
+86(0) 10 6528 0922
+86(0) 10 6528 0933 fax
beijing@bonhams.com

Japan
Akiko Tsuchida
Level 14 Hibiya Central
Building
1-2-9 Nishi-Shimbashi
Minato-ku
Tokyo 105-0003
+81 (0) 3 5532 8636
+81 (0) 3 5532 8637 fax
akiko@bonhams.com

Singapore
Bernadette Rankine
11th Floor, Wisma Atria
435 Orchard Road
Singapore 238877
+65 (0) 6701 8038
+65 (0) 6701 8001 fax
bernadette.rankine@
bonhams.com

Taiwan
Summer Fang
37th Floor, Taipei 101 Tower
Nor 7 Xinyi Road, Section 5
Taipei, 100
+886 2 8758 2898
+886 2 8757 2897 fax
summer.fang@
bonhams.com

AUSTRALIA

Sydney
76 Paddington Street
Paddington NSW 2021
Australia
+61 (0) 2 8412 2222
+61 (0) 2 9475 4110 fax
info.aus@bonhams.com

Melbourne
Como House
Como Avenue
South Yarra
Melbourne VIC 3141
+61 (0) 3 8640 4088
+61 (0) 2 9475 4110 fax
info.aus@bonhams.com

AFRICA

Nigeria
Neil Coventry
+234 (0)7065 888 666
neil.coventry@bonhams.com

South Africa - Johannesburg
Penny Culverwell
+27 (0)71 342 2670
penny.culverwell@bonhams.com

Registration and Bidding Form

(Attendee / Absentee / Online / Telephone Bidding)

Please circle your bidding method above.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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Paddle number (for office use only)

This sale will be conducted in accordance with Bonhams' Conditions of Sale and bidding and buying at the Sale will be regulated by these Conditions. You should read the Conditions in conjunction with the Sale Information relating to this Sale which sets out the charges payable by you on the purchases you make and other terms relating to bidding and buying at the Sale. You should ask any questions you have about the Conditions before signing this form. These Conditions also contain certain undertakings by bidders and buyers and limit Bonhams' liability to bidders and buyers.

Data protection – use of your information

Where we obtain any personal information about you, we shall only use it in accordance with the terms of our Privacy Policy (subject to any additional specific consent(s) you may have given at the time your information was disclosed). A copy of our Privacy Policy can be found on our website (www.bonhams.com) or requested by post from Customer Services Department, 101 New Bond Street, London W1S 1SR United Kingdom or by e-mail from info@bonhams.com.

Credit and Debit Card Payments

There is no surcharge for payments made by debit cards issued by a UK bank. All other debit cards and all credit cards are subject to a 2% surcharge on the total invoice price.

Notice to Bidders.

Clients are requested to provide photographic proof of ID - passport, driving licence, ID card, together with proof of address - utility bill, bank or credit card statement etc. Corporate clients should also provide a copy of their articles of association / company registration documents, together with a letter authorising the individual to bid on the company's behalf. Failure to provide this may result in your bids not being processed. For higher value lots you may also be asked to provide a bank reference.

If successful

I will collect the purchases myself ☐

Please contact me with a shipping quote (if applicable) ☐

Sale title: The Jonathan Minns Collection of Engineered and Other Models		Sale date: 22 September 2015	
Sale no. 23024		Sale venue: Knightsbridge	
If you are not attending the sale in person, please provide details of the Lots on which you wish to bid at least 24 hours prior to the sale. Bids will be rounded down to the nearest increment. Please refer to the Notice to Bidders in the catalogue for further information relating to Bonhams executing telephone, online or absentee bids on your behalf. Bonhams will endeavour to execute these bids on your behalf but will not be liable for any errors or failing to execute bids.			
General Bid Increments:			
£10 - 200by 10s		£10,000 - 20,000by 1,000s	
£200 - 500by 20 / 50 / 80s		£20,000 - 50,000by 2,000 / 5,000 / 8,000s	
£500 - 1,000by 50s		£50,000 - 100,000by 5,000s	
£1,000 - 2,000by 100s		£100,000 - 200,000by 10,000s	
£2,000 - 5,000by 200 / 500 / 800s		above £200,000at the auctioneer's discretion	
£5,000 - 10,000by 500s			
The auctioneer has discretion to split any bid at any time.			
Customer Number		Title	
First Name		Last Name	
Company name (to be invoiced if applicable)			
Address			
City		County / State	
Post / Zip code		Country	
Telephone mobile		Telephone daytime	
Telephone evening		Fax	
Preferred number(s) in order for Telephone Bidding (inc. country code)			
E-mail (in capitals)			
By providing your email address above, you authorise Bonhams to send to this address information relating to Sales, marketing material and news concerning Bonhams. Bonhams does not sell or trade email addresses.			
I am registering to bid as a private buyer <input type="checkbox"/>		I am registering to bid as a trade buyer <input type="checkbox"/>	
If registered for VAT in the EU please enter your registration here: □□ / □□□ - □□□□ - □□		Please tick if you have registered with us before <input type="checkbox"/>	

Please note that all telephone calls are recorded.

Telephone or Absentee (T / A)	Lot no.	Brief description	MAX bid in GBP (excluding premium & VAT)	Covering bid*

FOR WINE SALES ONLY		
Please leave lots "available under bond" in bond <input type="checkbox"/>	I will collect from Park Royal or bonded warehouse <input type="checkbox"/>	Please include delivery charges (minimum charge of £20 + VAT) <input type="checkbox"/>

BY SIGNING THIS FORM YOU AGREE THAT YOU HAVE SEEN THE CATALOGUE AND HAVE READ AND UNDERSTOOD OUR CONDITIONS OF SALE AND WISH TO BE BOUND BY THEM, AND AGREE TO PAY THE BUYER'S PREMIUM, VAT AND ANY OTHER CHARGES MENTIONED IN THE NOTICE TO BIDDERS. THIS AFFECTS YOUR LEGAL RIGHTS.	
Your signature:	Date:

* Covering Bid: A maximum bid (exclusive of Buyers Premium and VAT) to be executed by Bonhams only if we are unable to contact you by telephone, or should the connection be lost during bidding.

NB. Payment will only be accepted from an account in the same name as shown on the invoice and Auction Registration form.

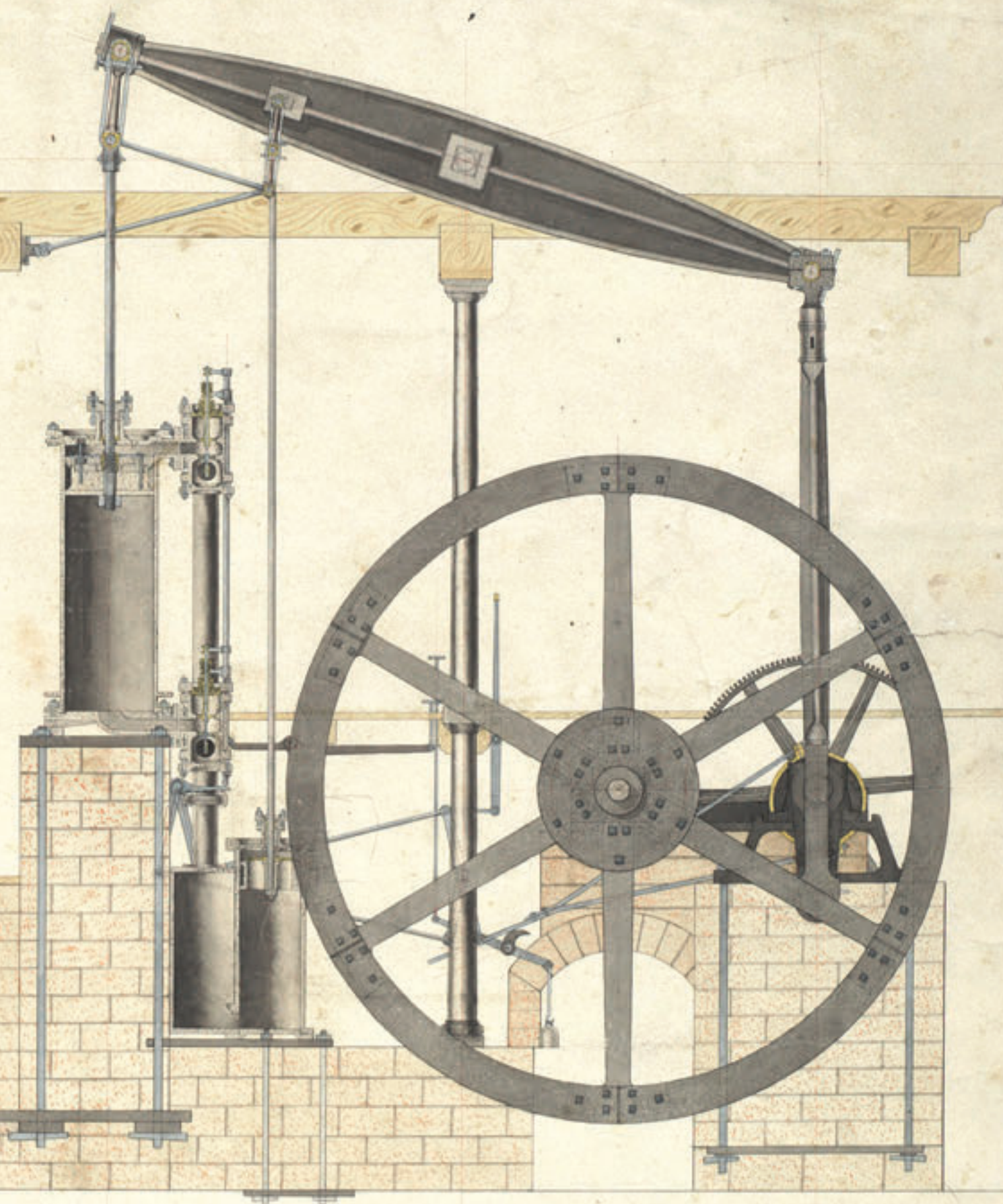
Please email or fax the completed Auction Registration form and requested information to:

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Bonhams

Montpelier Street
Knightsbridge
London SW7 1HH

+44 (0) 20 7393 3900
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