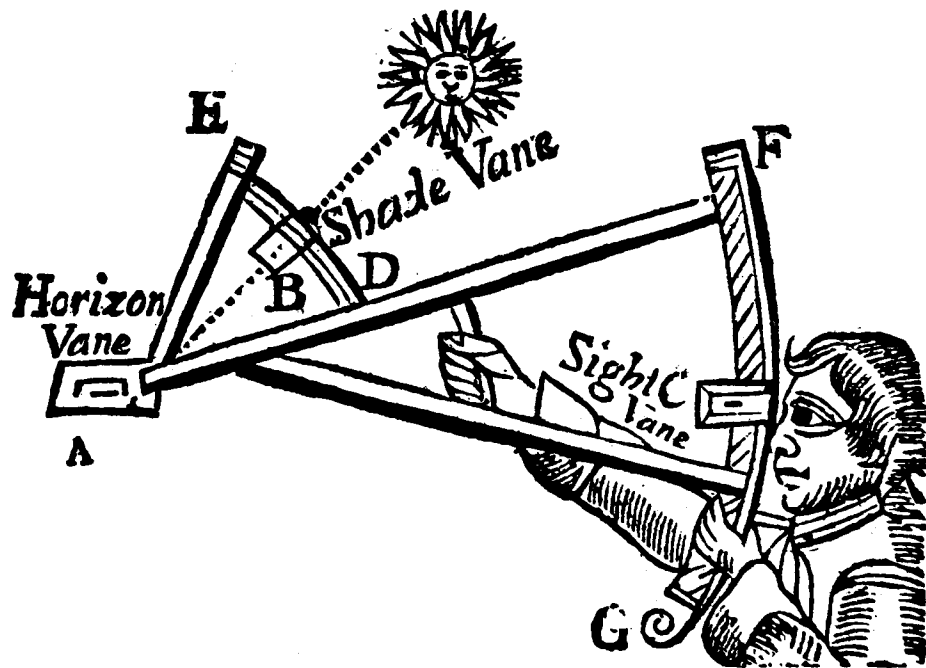


Historical Technology

Catalog 101



SAUL MOSKOWITZ INSTRUMENT ENGINEERING

6 MUGFORD STREET MARBLEHEAD, MASSACHUSETTS 01945

(617) 631-2275



1. NEWTON'S 10 INCH CELESTIAL GLOBE-English, c.1825. The 10" dia. globe is mounted within a 3 legged mahogany desk stand, the whole standing 17" high. The equatorial ring of the stand is 13 1/2" dia.. The boundaries of the constellations are indicated and all the zodiacal figures are drawn in fine detail. The cartouche reads "NEWTON'S / CELESTIAL GLOBE / Shewing the number, order, and magnitude / of upwards of 4000 Stars / on which are laid down all of the Stars / contained in the catalogues of / the most celebrated Astronomers / Newton & Co., 3 Fleet Street". Except for some minor rub marks, both the stand and globe are in excellent condition.

John Newton, globe maker and land-surveyor (from 1810-68) was perhaps the junior partner of the late 18th century globe makers, Palmer and Newton. Thomas Keith (1759-1834) in his treatise on globes (1st ed. 1806) listed as London's four leading globe makers; Cary, Bardin, Newton and Addison. (E.G.R.Taylor 2).

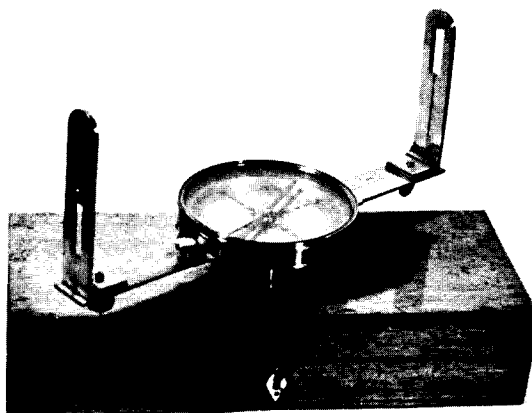
**SOLD** \$ 250

2. BRASS SURVEYOR'S COMPASS - English or American, c.1820. No maker's name. Compass is 13" long, 6" high. Silvered compass dial is 4 1/2" dia., needle 4" long. Removable sight vanes and compass proper fit into original dove-tailed oak case 6" by 14" by 3" high. Both compass and case in fine condition although there is some minor corrosion pitting to the brass edges and underside of the compass.

This form of instrument was made and generally used in America during the 18th and early 19th centuries for most land surveying. Without a maker's name though, its American origin cannot be proven.

(8 pounds)

**SOLD** \$ 125



3. EARLY BOURDON ANEROID BAROMETER - French, c.1851. Brass hanging case 5 1/8" dia. Silvered scale reading from 28 inches to 31 inches in 20ths. Brass set hand, black indicator hand. Dial engraved: "Metallic Barometer; E. Bourdon and Richards Patent Paris; Gold Medal Exhibition 1849; Council Medal, Exhibition Universal London 1851". Contained in open face walnut case 7" by 5 3/4" by 2 1/2" high. In fine condition and working order. Glass face is a replacement.

The aneroid barometer, upon which the aircraft altimeter is based, was invented by the Frenchman Vidie in 1845 and made popular by another Frenchman, E. Bourdon after 1849. Item 397 in the Peabody collection (Brewington) is similar except that it is missing the walnut case and has a white painted face.

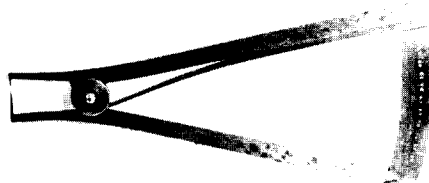
(5 pounds)

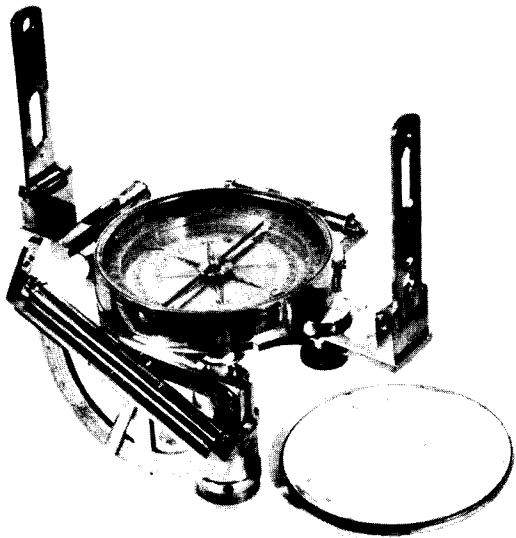
\$ 90

4. EARLY MEASURING CALIPERS - Maker and origin unknown, probably late 18th century. Brass scale 3" long with iron caliper arms 6" long. Scale reads from "0" to "72" with divisions of "1". Every sixth division is numbered by hand stamped individual numerals. A 1/4" thick test standard produces a reading of "34". Although the iron parts show some pitting, the instrument is in very good condition.

(postpaid)

**SOLD** \$ 30





17. EXTRAORDINARY SURVEYOR'S COMPASS - English, c.1830-40. Dial engraved, "R. Field, & Son / New St. Birm.,<sup>en</sup>". This is a vernier compass with folding sight vanes, 2 bubble levels, and a complete theodolite attachment with sight vanes, long bubble level and readout scale. The instrument, in brass, 10 1/2" high, 10" long, 6 1/2" wide, with silvered compass dial 5" dia., is divided in degrees from "0" to "360", the vernier marked "30, 45, 15, 30" reads to 3 minutes of arc. The inside of the dial is marked with 8 pts. of the compass as well as every 10 deg. interval. Compass sight vanes 5 1/4" high, bubble levels 3" long. Pull-out rotation locking pin on underside, also rotation drive knob, compass needle locking lever. Theodolite sight vanes 5 3/4" apart, 4 3/4" long bubble level, 5 1/4" dia. semi-circular readout scale divided in 1 deg. intervals from 90°-0°-90°. There is a second, non-linear scale marked "LINKS OF CHAIN". No case. The compass/theodolite is in working order and in excellent condition.

Surveyor's instruments of this complexity and in the state of the one offered here are extremely rare. The maker has combined every possible refinement with the standard compass to produce an unusual and very attractive item.

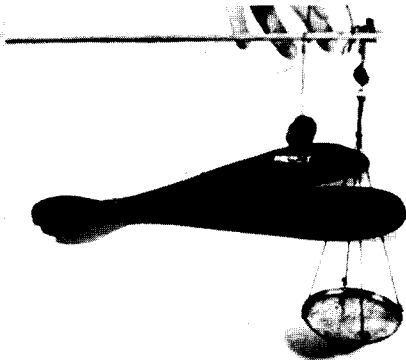
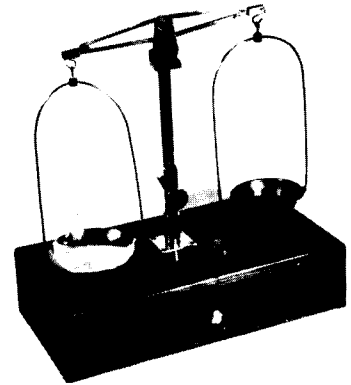
\$ 290

18. SEA CAPTAIN'S GOLD WEIGHING BALANCE - American, c.1850, by Henry Cowan, Boston. A portable, stowable two pan balance in brass 14 1/2" high on inlaid wooden base 7 1/2" by 13 1/2" by 3 1/4" high. Drawer in base contains a set of 6 brass weights, is used for stowing the entire balance when not in use. Includes 1 brass pan, two iron pans. Balance and its base/case in fine condition except for missing zero pointer and solder repair to one pan hoop which throws the balance off the zero point.

These balances were made for the East Indiamen and Clipper Ship captains sailing out of the New England ports for the Far East. They were used for weighing the gold used in payment for purchased cargoes.

(8 pounds)

\$ 120



19. ASIAN OPIUM WEIGHING SCALE - Nepal, 18th century. Single brass pan 3 1/2" dia. suspended by 4 strings from filigree work silver shield (?) set with a small piece of jade, all then hanging from end of bone arm 12" long. Bronze counter weight on loop of string slides along arm. Weight indicated by scale on arm consisting of incised dots; also Chinese figures in dots which we (Hist. Tech.) cannot begin to read. Scale comes in fitted wooden case of unusual lopsided figure-eight shape. Case shows wear. Strings probably replacements. Otherwise, this instrument is complete, original and in very good condition.

(3 pounds)

\$ 75

20. CASED POCKET GOLD BALANCE - American, mid 19th century. Label in cover reads "Boston Museum / Opposite / J. Russell Spalding's, / Apothecary, / 23 Tremont Row, Boston.". Of brass with balance arm 4 1/2" long, pans 2" dia. Set of 4 original weights included. Original oval tin case 5" by 2" by 1" thick with original paint inside and out, including gold stenciled American eagle on cover. An attractive American piece in fine, original condition.

(postpaid)

\$ 45

