

PERCEPTIONS SCIENTIFICA

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FALL 1985



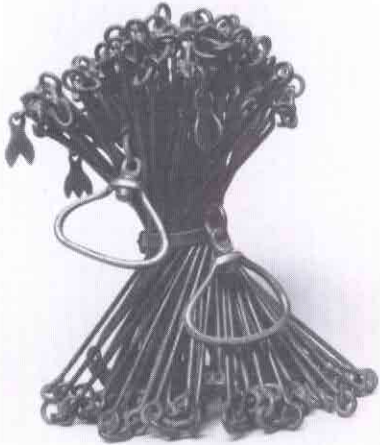
1. LARGE MINING ALTIMETER/BAROMETER, English, made for the American market, c-1900, signed "Keuffel & Esser Co., N.Y., Mining Aneroid, Compensated". This altimeter was the most accurate and the largest of its type to be offered by most American firms. It is made of brass with a 5" diameter case enclosing a silvered scale reading 0-5000 feet ascent, and 0-2000 feet decent. The barometric scale reads from 26-33 inches. The vernier (reading direct to 1 foot), as well as the vernier magnifier, are rotatable around the margin of the outer scale; the motion controlled by the knob at the top of the instrument, and an interior rack and-pinion. The instrument is in fine condition and is accompanied by its original velvet-lined leather case.....\$350

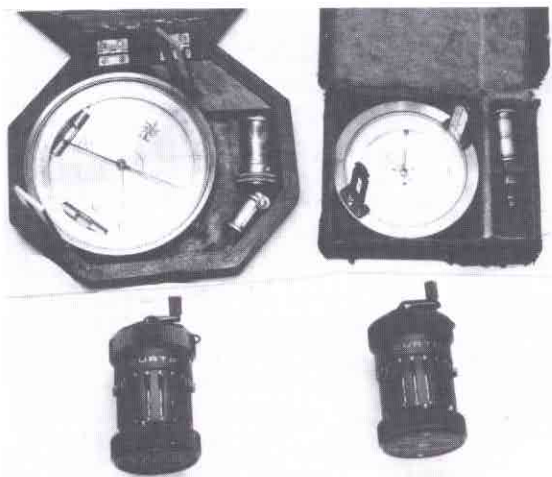
2. POCKET ALTIMETER/BAROMETER, English, early 20th century. This pocket instrument is 2" in diameter and has a scale that reads from 0-12,000 feet by 100 foot increments. The barometric scale reads from 20-31 inches. It is housed in a velvet lined, leather covered case. It is complete with original instructions and a shipping box. Instrument and case are in excellent condition.....\$110

3. TRANSIT BY BUFF & BERGER, American, c-1897 signed "Buff & Berger, Boston, #2703". The compass plate carries a patent date of "March 2, 1897". The transit is of brass construction and stands 11" tall with a 9 1/2" inverted-image telescope which extends to 11" by rack-and-pinion. The limb diameter is 6" and carries a 3 1/2" compass, black-painted standards, and a drum-micrometer gradiator on the 5" diameter vertical scale. The noted partnership between George L. Buff and Christian Louis Berger lasted from 1871-1898. They were one-of very few American instrument manufacturers to produce fine geodetic and astronomical instruments. This transit is in very good condition, complete with lens hood, prismatic eyepiece with swing-away filter, tripod, and a later-fitted case.....\$525



4. 100 FOOT ENGINEERS CHAIN, English, c-1890, signed on a brass tag "Chesterman J. C. Sheffield, England". The two swiveled brass handles are stamped 100 feet. The chain consists of 100 1-foot open-end links with brass tally tags every 10 feet and a swivel-link at the mid-way point. The chain is in good condition.....\$165

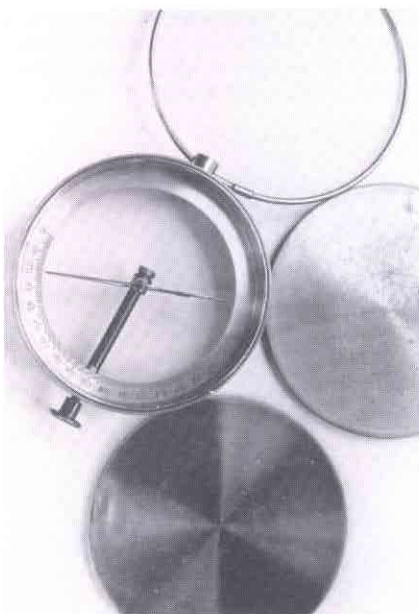




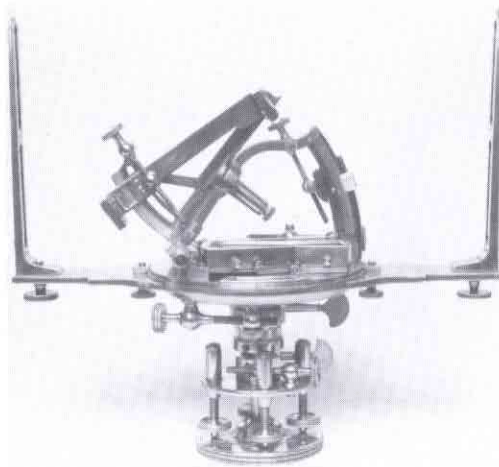
Clockwise from the upper left.

5. VERNIER POCKET COMPASS, American, c-1900. Made of bright lacquered brass, this compass measures 4 1/2" in diameter, has two folding sight vanes and a variation-setting with a vernier that reads direct to 1/2 degree. A silvered and engraved compass plate holds two level vials and a 3 1/4" needle with an arrestor. The compass is complete with a jacobs-staff mount (lacking the ball) and an octagonal mahogany case.....\$150
6. FRENCH POCKET COMPASS, c-1900. The compass measures 3 1/2" in diameter, is made of brass and has a silvered compass face. The 2 1/2" sight vanes are fitted with suspension hooks. The compass is complete with a jacobs-staff mount and is in good condition; the cloth covered case is in poor condition.....\$95
7. CURTA HAND-CRANK CALCULATOR, Swiss, c-1960, Type I No. 77325. The calculator is complete with a hard plastic case and is in fine working condition.....\$220
- 7a. CURTA HAND-CRANK CALCULATOR, Swiss, c-1960, Type I No. 21284. The calculator is complete with a metal case and is in fine working condition.....\$225

8. NEW IMPROVED MINERS COMPASS DIP NEEDLE, American, c-1900. The needle and silver scale are housed in a 3 1/2" diameter glass enclosed brass cell, suspended from a 3 3/4" diameter loop. There are brass covers for both sides of the instrument. This dip needle incorporates a universally jointed needle, a Norwegian-type design i.e., it could be used horizontally as a north-seeking needle, or more commonly, suspended in a vertical position as a dip needle to assist with the location of heavy bodies of metal ore. The instrument is in fine condition retaining most of the original bright lacquer, and includes the original instruction sheet.....\$120



9. WM. AUSTIN BURT'S PATENT SOLAR COMPASS, American, pre-1886, signed "W. & L. E. Gurley, Troy, N. Y." and on an interior hidden surface "Ashby re-adjusted May 29, 1886". The solar compass is one of very few American designed surveying instruments. It was used extensively for original land surveys throughout 19th century America. The compass is constructed of brass and has a total height of 13 1/2". The base plate is 15" long and has two 7 3/4" sight vanes, one with dual swing-away peep sights. The limb diameter is 6 3/4" and carries a trough compass with a 3 1/2" needle and an off-set magnetic-variation index arc. Two opposing verniers read direct to one arc minute. The 19th century state-of-the-art solar apparatus consists of a polar index scale, a declination scale and a 3 1/4" latitude scale; all of the index arcs are made from silver. The two reticulated silver image-reflecting plates are on the top portion of the solar apparatus and carry two swing-away sights. The whole, with upper and lower recording and non-recording motions, is mounted on a detachable four-screw leveling base. The inventor of the solar compass, Wm. Austin Burt, was granted a patent for this "True Meridian Finding" instrument in 1836. This example possesses early characteristics such as, non-spring opposed tangent screws, common to most pre-1885 Gurley instruments. This magnificent instrument would compliment any fine collection.



.....\$3850



10. NEW YORK SURVEYING TRANSIT, American, 3rd quarter of the 19th century, signed "B. Pike & Sons, 518 Broadway, N. Y.". This early transit is made of brass with a total height of 11 1/2". The telescope measures 10" closed that extends to 11" by rack-and-pinion focus. The 5" magnetic needle is within a 6 1/4" diameter engraved compass housing. The limb diameter is 7 3/4" and incorporates the early style lock and non-spring-opposed tangent screw. The horizontal circle carries two opposing verniers reading direct to one arc minute. The instrument retains an authentic early darkened patina. Benjamin Pike and family were one of the foremost manufacturers of scientific instruments in 19th century America. The transit is complete with case (case in fair condition) and a fine set of large tripod legs. A handsome transit by one of Americas most successful instrument manufacturers.....\$975

