

# LIGHT MOUNTAIN TRANSIT

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**T**HE Light Mountain Transit, introduced by us in 1876 to meet a demand for a light instrument of the finest quality, has met with a very large sale and has been universally approved. It is especially fitted for mine or mountain surveying, where great portability is essential, but is equally adapted to the general work of the engineer. The instrument, shown on page 36, has a needle four inches long, and a telescope eight inches long with a power of twenty diameters. Platinum stadia wires are always furnished with this instrument, unless otherwise ordered.

The sockets are like those shown on page 18. The compass circle is movable about its center, so as to set off the magnetic declination.

As in our other transits, the limb is graduated on silver, reading usually to single minutes; but, if desired, it can be graduated to read to twenty or thirty seconds. There are caps above the leveling-screws to exclude dust.

The cut shows the celluloid reflectors, placed over the two opposite verniers of the limb to throw light upon the graduations below, which are of special convenience in the surveys of mines.

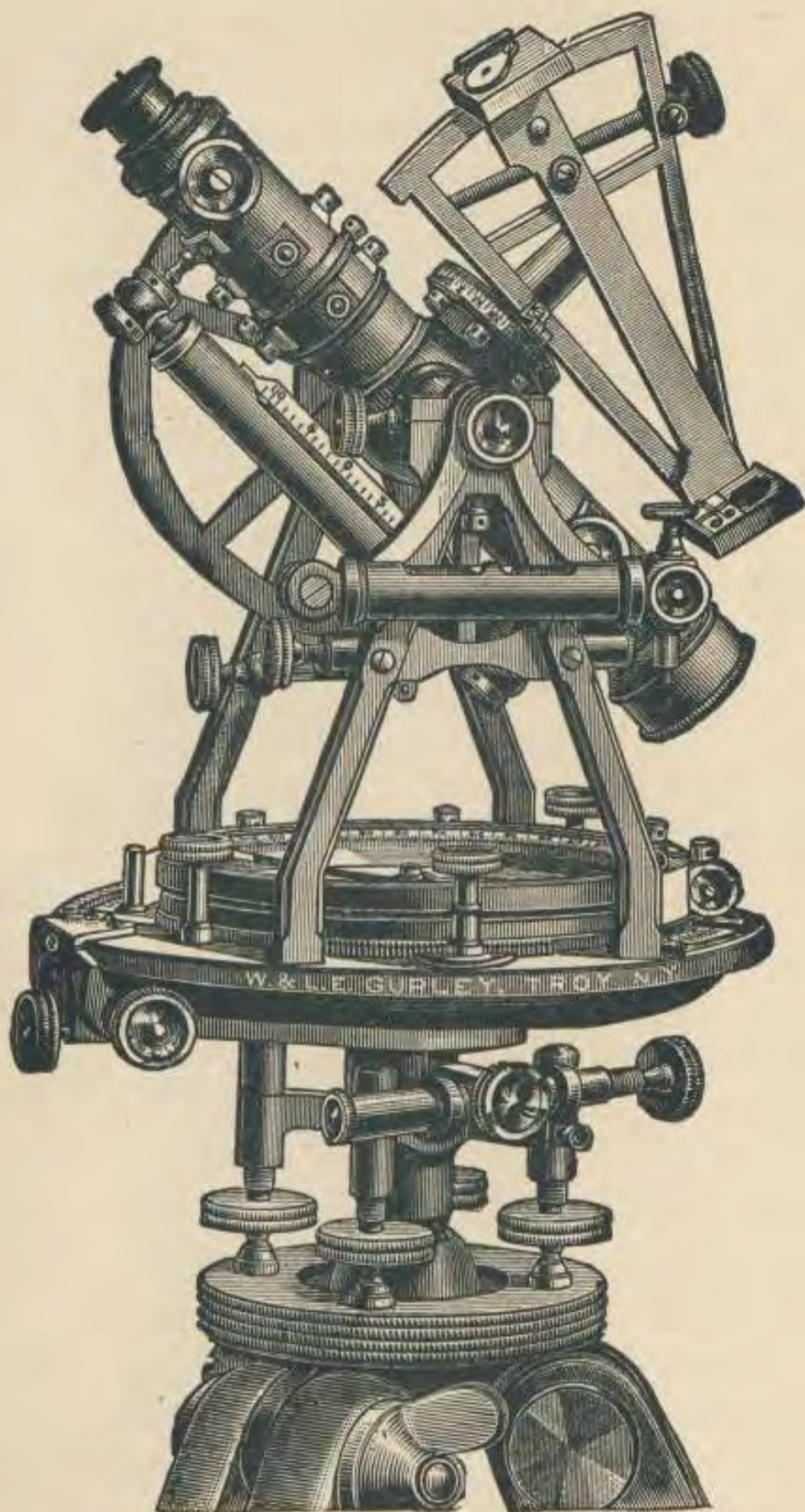
The Mountain Transit is sometimes used with a plain telescope, but oftener with one or more attachments, as vertical **ATTACHMENTS FOR TRANSITS** arc, level and clamp and tangent, as shown. Frequently this instrument is furnished as shown on page 37, with vertical arc, level, clamp and tangent, and solar attachment.

The Light Mountain Transit is almost always used upon

**No. 28**

Light Mountain Transit, two verniers to limb, 4-inch needle, with vertical arc, level on telescope, and clamp and tangent to telescope axis, and extension tripod.

Price, \$186.00.



No. 30

Light Mountain Transit, two verniers to limb, 4-inch needle, with solar attachment, vertical arc reading to 1 minute, level on telescope, and clamp and tangent to telescope axis, and extension tripod. Price, \$245.00.

our improved extension tripod (see page 189), the legs of which can be lengthened or shortened at will. It is thus adapted for use in mountain surveys, where one or more legs must be shortened, or for use in mines, where a short tripod is often indispensable.

The sliding pieces can be turned end for end, the points being thus out of the way and the tripod more easily transported. The tripod when closed is only three feet long, and is carried by a shawl strap, which we furnish with it.

**LEATHER CASE** Besides the light mahogany box, in which the instrument is packed as usual, there is also supplied a sole-leather case, furnished with shoulder straps.

The weight of this instrument with plain telescope and without tripod is ten pounds; with solar attachment, vertical arc, level and clamp, as shown in the cut on page **WEIGHT** 37, twelve pounds. The extension tripod weighs about eight and one-half pounds.