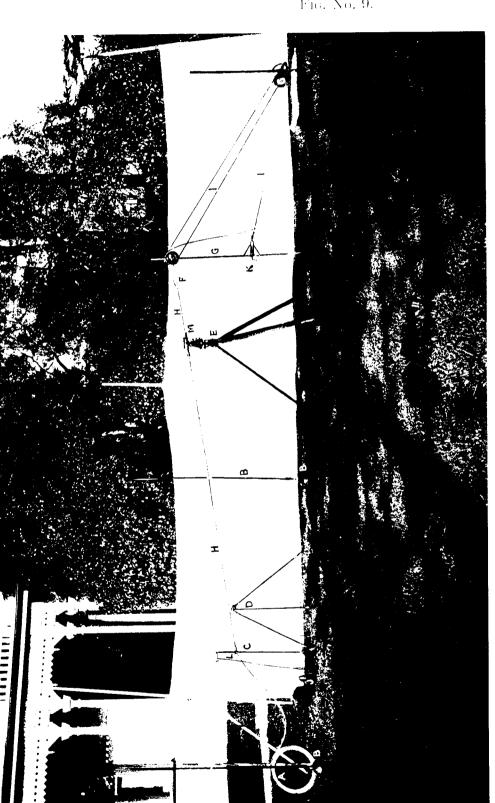
F16. No. 9.



GENERAL VIEW OF BASE-MEASURING APPARATUS SET UP READY FOR USE. F. Spring balance, C. Tension-gear.

A. Tape-winder. Steel-wire frame, covered with stant leather, 18 in. inside diameter.

B. Cast-iron universal-jointed support-stands (Crabs). (For details see Fig. No. 11.)

D. Measuring-tripod. Calvanized-iron tube legs, gun-metal top. For de-Por details see Fig. No. 8,) C. Measuring-stand.

E. Five-inch Troughton and Sunns transit theodolite, with brass and steel reading-scales attached to the vertical arc. (For details see Fig. No. 6.) tails see Fig. No. 7.)

Slow-motion serew of chaining-stand.
Scale attached to axis of vertical ar

Winch-handle of slow-motion serew of tension-gent.

Fension-gear. Por details see Fig. No. 10.)

Tension-wires. Weight.

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Scale attached to axis of vertical arc of theodolite.

When measurements are being made in the field, the observer at the scale stands abreast of the theodolite and reads the position of the graduated mark on the tape where it passes the scale M or A clearly shown in Fig. No. 6, always using a strong magnifying-glass.

The observer at the rear end, or triped D, stands abreast of the triped and makes the contact of the rear graduated tape-mark with the zero-mark on the tripod-head (see Fig. No. 7) by means of the slow-motion sever at L or B in Fig. No. 8. The fine scale on tripod is only in the position shown The tension-recorder stands abreast of F and keeps the index-mark of the balance true by means of the wineh-handle K of the slow-motion tension when the tape is on the comparator.