

(No Model.)

W. F. HILL.  
COMBINED T-SQUARE AND BEVEL.

No. 304,196.

Patented Aug. 26, 1884.

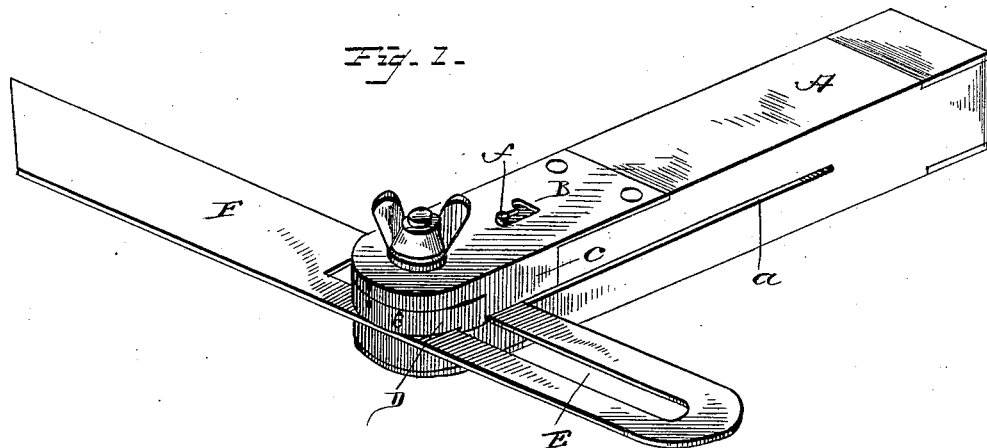


Fig. 2.

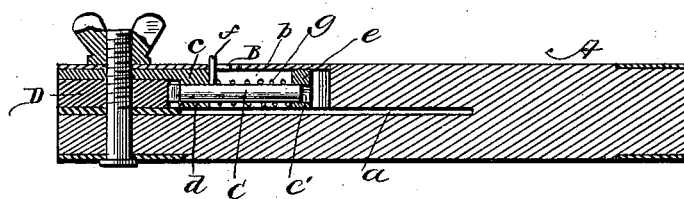


Fig. 3.

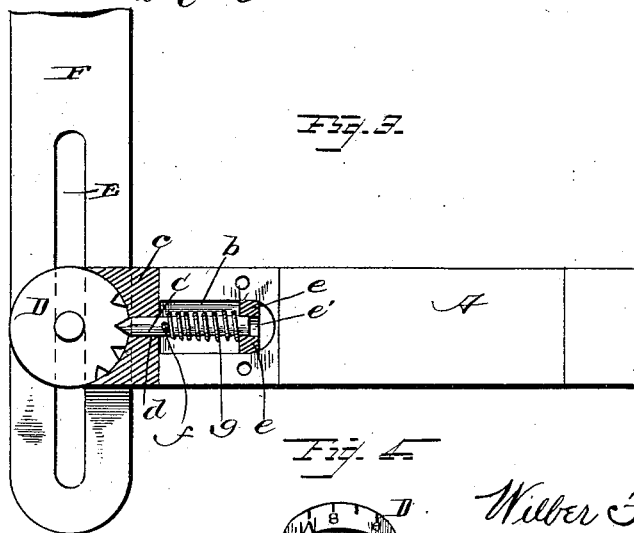
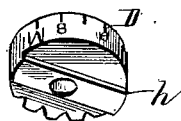


Fig. 4.



WITNESSES  
F. L. Curran  
W. S. Harris

Wilber F. Hill  
INVENTOR  
by C. A. Snow & Co.  
Attorneys

# UNITED STATES PATENT OFFICE.

WILBER F. HILL, OF NORTH MANCHESTER, CONNECTICUT.

## COMBINED T-SQUARE AND BEVEL.

SPECIFICATION forming part of Letters Patent No. 304,196, dated August 26, 1884.

Application filed March 21, 1884. (No model.)

### *To all whom it may concern:*

Be it known that I, WILBER F. HILL, a citizen of the United States, residing at North Manchester, in the county of Hartford and State of Connecticut, have invented a new and useful Combined T-Square and Bevel, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to a combined T-square and bevel; and it has for its object to provide a device of this character whereby different positions and angles may be determined instantly.

A further object of the invention is to provide improved means for holding the blade or rule at any desired point; and, further, to provide a device of this character which shall be cheap and simple in its construction and thoroughly effective in its use.

With these ends in view the invention consists in the combination, with a slotted handle, of a graduated disk connected therewith, and means for holding said rule and disk in position at any angle.

The invention further consists in the improved construction and combinations of parts hereinafter fully described, and pointed out in the claim.

In the drawings, Figure 1 is a perspective view of my invention. Fig. 2 is a longitudinal section taken through the handle, and showing the means for holding the blade and disk in position. Fig. 3 is a plan view with the upper cap-plate removed, and Fig. 4 is a perspective view of the disk detached.

In the accompanying drawings, in which like letters refer to corresponding parts in the several figures, A represents a handle, which is provided with a transverse slit or opening, *a*, extending nearly its entire length, the front end of the handle being open. The upper side of this handle is cut off for a short distance at the forward end, and just in rear of this cut-away portion upon the upper side of the handle is provided a recess or slot, *b*.

B represents a plate, which is adapted to be secured over said cut-away portion and the slot, and is provided on its under side with a depending bracket, *c*, having a semicircular recess on its front edge or side, and provided

with a perforation or opening, *d*. Just in rear of the bracket *c* is provided a depending lug, *e*, which is provided with an opening, *e'*.

C represents a pin or bolt, which is mounted in the opening *e'* of the lug *e* at one end, and in the opening *d* of the bracket *c* at the other end. This bolt is provided with a pin, *f*, which projects upwardly through an L-shaped slot in the plate B. Upon this bolt is mounted a coil-spring, *g*, which bears against the inner side of the depending lug *e* at one end, and against the pin *f* at its other end.

D represents a disk, which is provided on its under side with a rib, *h*, which is adapted to fit in the slot E of the blade or rule F, in order that said blade may be moved upon the rib of said disk, and yet any possibility of detachment prevented. This disk is situated with one of its sides bearing against the circular portion of the bracket *c*, and is secured between the forward ends of the handle by means of a bolt screw-threaded at its ends and provided with a thumb-screw for tightening the same. This disk is provided upon its peripheral edge with a series of teeth, which are adapted to receive the bolt C, in order that the disk may be locked at any desired point. By simply disengaging the pin thereof from the lower arm of the L-shaped slot the bolt may be carried forward to engagement with the teeth by means of the coil-spring. The disk is also provided with a series of distinguishing marks or figures upon its peripheral edge, which are adapted to register with a mark upon the end of the plate B. These marks are so arranged that when it is desired to obtain the desired angle for mitering, the disk is turned until the letter M registers with the mark upon the end of the plate B. The bolt is then thrown into engagement with the disk, as described, and the pivotal bolt tightened by means of the set-screw. There are also other marks upon the disk, and by turning the same to register with the mark upon the end of the plate the desired angle may be readily determined.

From the foregoing description it will be seen that my improvement is simple in its construction, that by its use the relative angles of different objects may be readily and quickly

determined, and that it may be manufactured at a slight advance in the cost of the ordinary square.

5 Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

10 The combination, with a slotted handle, of a disk provided on its under side with a downwardly-projecting rib, and pivoted between the ends of said handle, a blade or rule provided with a longitudinal slot to receive said rib, a bolt pivoting said disk and blade, a set-screw for clamping the same to prevent the movement of the blade upon the disk, a plate  
15 secured to the upper side of the handle and fitting over the disk, said plate being provided

with a downwardly-projecting bracket provided with an opening, a lug situated just in rear of said bracket and provided with an opening, and a bolt sliding in said openings, 20 said bolt being provided with a coil-spring and a pin projecting upwardly through an L-shaped slot in the said plate, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

WILBER F. HILL.

Witnesses:

H. G. TALCOTT,  
HENRY BARROWS.