

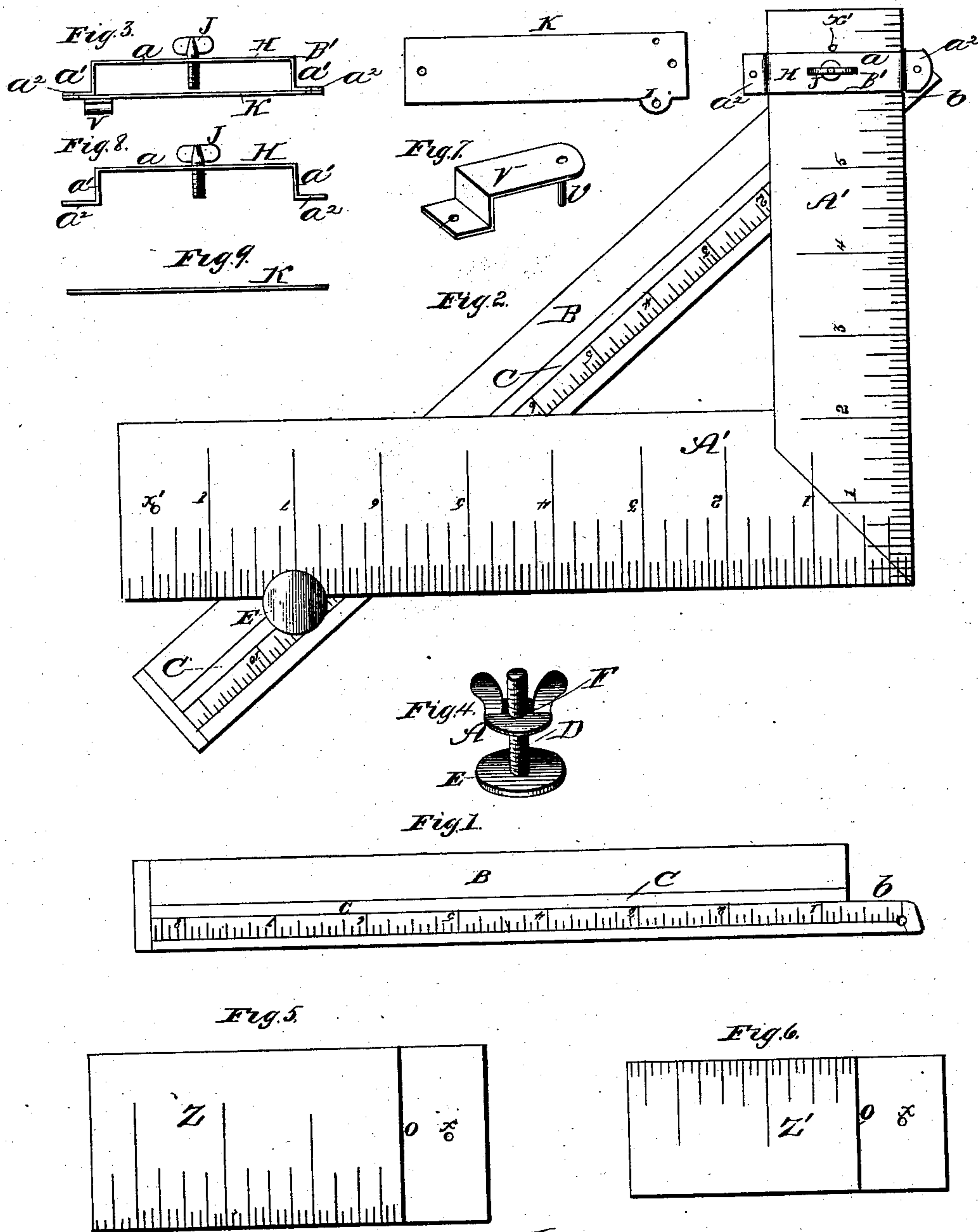
(Model.)

C. W. HOVIS.

ADJUSTABLE PITCH BOARD FOR SQUARES.

No. 260,755.

Patented July 11, 1882.



Witnesses.
Daniel C. Kohlmeyer
Samuel S. Lewis,

Inventor.
Charles W. Hovis
by A. Brown & Co. Attys.

UNITED STATES PATENT OFFICE.

CHARLES W. HOVIS, OF CLINTONVILLE, PENNSYLVANIA, ASSIGNOR OF ONE-HALF TO LESTER A. HOVIS, OF SAME PLACE.

ADJUSTABLE PITCH-BOARD FOR SQUARES.

SPECIFICATION forming part of Letters Patent No. 260,755, dated July 11, 1882.

Application filed August 13, 1881. (Model.)

To all whom it may concern:

Be it known that I, CHARLES W. HOVIS, of Clintonville, in the county of Venango and State of Pennsylvania, have invented certain new and useful Improvements in Gage and Bevel Attachments to Squares, of which the following is a specification.

In the drawings hereto annexed, Figure 1 is a plan view of the slotted bar or rule. Fig. 2 is a similar view of my invention complete. Fig. 3 is an end view of the sliding collar or clasp. Fig. 4 is a perspective view of the securing-screw. Figs. 5 and 6 are plan views of the lengthening-strips. Fig. 7 is a perspective view of a portion of the sliding collar. Fig. 8 is an end view of the upper portion of the sliding collar. Fig. 9 is an end view of the lower portion of the sliding collar, and Fig. 10 is a detail view.

Corresponding parts in the several figures are denoted by the same letters of reference.

This invention relates to gage and bevel attachments to carpenters' squares, and has for its object to promote the facility with which the workman is enabled to obtain the length and end bevel of rafters, braces, and the like; and to this end it consists in certain improvements in the construction and operation of the same, substantially as will be hereinafter more fully described, and particularly pointed out in the claim.

Referring by letter to the drawings, A' denotes a square of ordinary construction, on one arm of which is adapted to slide a collar, B'. This sliding collar B' is composed of three parts or pieces, the upper main part of which, H, consists of the plate α , having a screw-threaded perforation for the set-screw J, and vertical ends α' , continued out to form horizontal flanges α^2 at each end. K designates a plate comprising the bottom portion of the sliding collar, having at one end a small projection, I. The plate K is riveted, as shown, to the flanges of part H, and has riveted to its under side, at the end having the projection I, the hanger or hinge-plate V, having a pivot or hinge-bolt, v , the free end of which is secured to the projection I on plate K.

B is a small adjustable bar or rule extended

at one end to form a projecting arm, b , by which it is hinged or pivoted to the sliding collar B' on the bolt v between the bottom plate, K, and hanger V. The rule B is slotted longitudinally, as shown at C.

A is a securing screw-piece consisting of flat head E, having screw-threaded shank D, which passes down through the longitudinal slot in bar B, and has adjusted over its free end a winged thumb-nut, F, by which it is operated to secure the small rule B to the desired point on the square.

Z Z' designate pieces of rule, which may be of any length desired, designed to be bolted on the ends of the square to lengthen the same. For this purpose the pieces Z Z' are provided with shoulders O near their end, which abut against the end of the square, and with a perforation, x , corresponding with a perforation, x' , in the ends of the square. Through these perforations the bolts are passed, and the lengthening attachments securely fastened to the square.

From the foregoing description, taken in connection with the drawings hereto annexed, the operation and advantages of my invention will be readily understood. The collar B', to which is hinged the end of the rule B, embraces and slides on an arm of the square, and may be secured at any point thereon by operating the set-screw J. The other end of the rule B is adjustably secured to the square by means of the screw-piece A working in the longitudinal slot in the rule B.

My invention is simple, convenient, and efficient for the purpose for which it is designed, and it is inexpensive and durable.

I am aware that it is not new to provide a square with a sliding clasp to which is secured a longitudinally-slotted bar or rule, such construction being shown in patents to H. Whipple, No. 14,329, to C. Lamb, No. 194,605, and others; but my invention possesses numerous advantages and differences in construction and arrangement of parts over the devices of its class heretofore in use, principal among which are the construction and arrangement of the sliding collar H, and method of securing the slotted bar B thereto by hanger V, by means

of which construction greater efficiency and accuracy are obtained.

Having thus described my invention, I claim and desire to secure by Letters Patent of the
5 United States—

As an improvement in gage and bevel attachments to squares, the combination, with the square, of the collar B', adapted to embrace and slide on one arm thereof, and comprising
10 a top plate, *a*, provided with a set-screw, J, and having vertical end pieces, *a'* *a'*, continued out-

wardly to form horizontal flanges *a*² *a*², and the bottom plate, K, secured to the latter, and having hanger V, between which and the bottom plate the bar or rule B is pivoted or hinged, 15 all arranged and operating substantially as herein shown and specified.

CHARLES W. HOVIS.

Witnesses:

ED. H. CONAN,
A. D. WILLIAMS.