

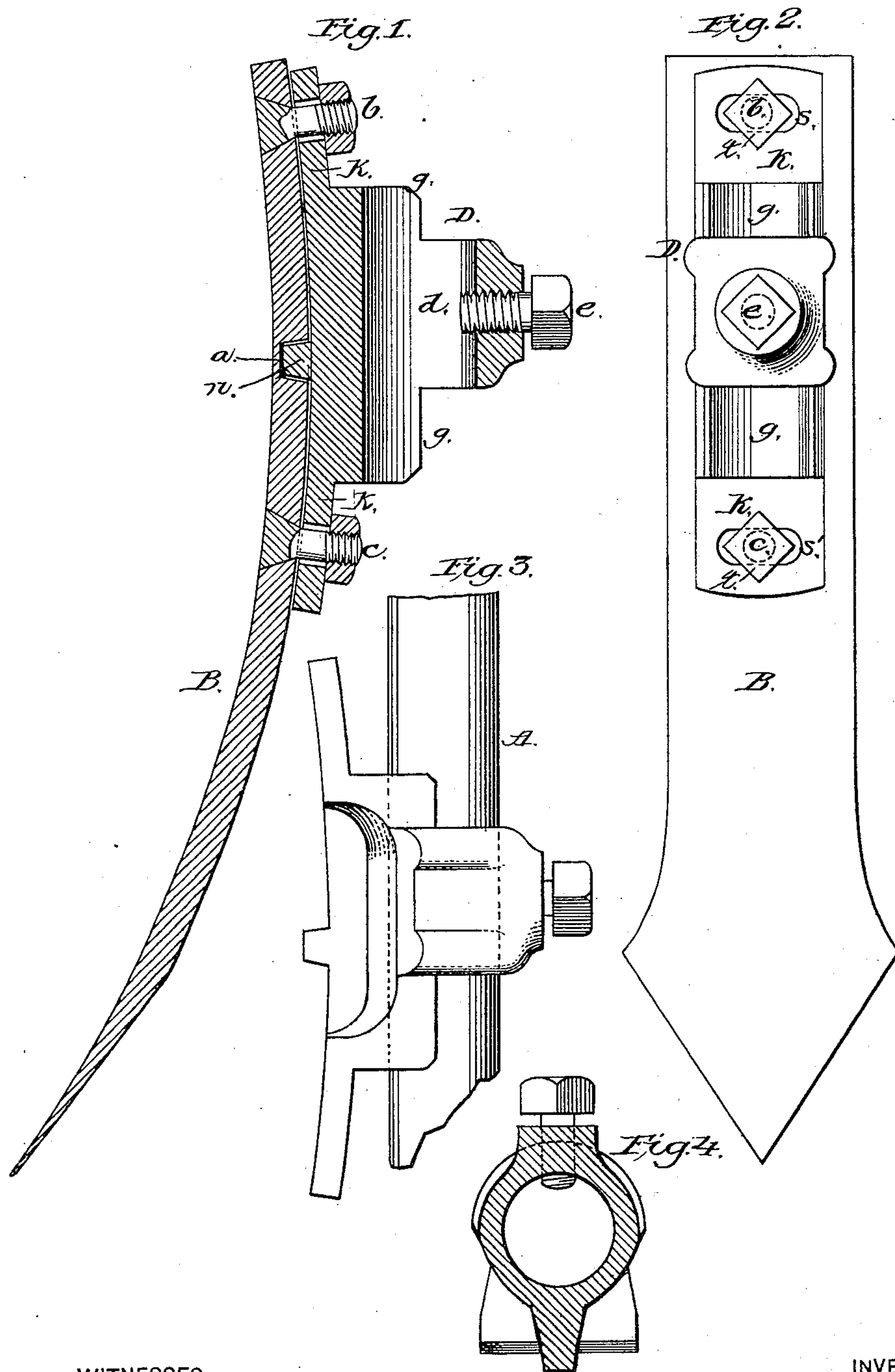
(No Model.)

F. B. MANLY.

ATTACHMENT FOR CULTIVATOR BLADES.

No. 246,170.

Patented Aug. 23, 1881.



WITNESSES

Villette Anderson
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UNITED STATES PATENT OFFICE.

FRANK B. MANLY, OF MALTA, OHIO.

ATTACHMENT FOR CULTIVATOR-BLADES.

SPECIFICATION forming part of Letters Patent No. 246,170, dated August 23, 1881.

Application filed May 14, 1881. (No model.)

To all whom it may concern:

Be it known that I, FRANK B. MANLY, a citizen of the United States, resident of Malta, in the county of Morgan and State of Ohio, have invented a new and valuable Improvement in Bull-Tongue Blades; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a vertical section. Fig. 2 is a rear view. Fig. 3 is a side view of a portion thereof, and Fig. 4 is a detail.

This invention has relation to devices for attaching a narrow or bull-tongue blade to the end of the standard or beam; and it consists in the combination, with the blade having a centering-recess, of the tubular attachment-plate, having a pivot-stop in its front and transversely slotted upper and lower ends for engagement with the threaded studs or bolts of the blade, as hereinafter shown and described.

In the accompanying drawings, the letter A designates the lower end of the standard or beam, and B indicates the bull-tongue or narrow blade to be attached thereto. This blade is designed to be recessed at *a* near its upper portion, and to have above said recess a threaded bolt or stud, *b*, and below said recess a similar bolt or stud, *c*.

D represents the attachment, which is provided with a tubular bearing, *d*, to fit the end of the beam. The attachment is designed to be adjustable up and down on the beam, and a set-screw, *e*, is provided, working through a threaded perforation in the wall of the bearing, to secure the attachment and beam firmly together. This attachment plate or casting is usually shouldered in rear at the upper and lower ends of the tubular bearing, as shown at *g*, and beyond these shoulders extend the slot-

ted end bearings, *k*, which are designed to receive the back of the blade B.

Midway between the bearings *k*, on the front of the casting, is the center stop or pivot-projection, *n*, which is designed to engage with the recess *a* of the blade, serving as a stop as well as a center of adjustment.

The end bearings, *k*, of the casting are transversely slotted, as indicated at *s s'*, for the passage of the threaded bolts or studs *b* and *c* of the blade, and nuts *t* serve to secure the blade in position on the front of the attachment after adjustment.

It will be observed that the end offsets or shoulders, *g*, are arranged to permit the nuts to be operated between the beam and the end bearings, *k*, the tubular bearing *d* being set well to the rear, as shown.

The attachment is designed to provide a simple means for the rotary, angular, and vertical adjustment of the blade.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination, with the beam and bull-tongue blade B, recessed at *a*, of the attachment D, its bearing *d* for the beam, front projection, *n*, serving as a stop and center of adjustment, transversely-slotted end bearings, *k*, and the fastening bolts and nuts of the blade, substantially as specified.

2. The attachment for bull-tongue blades having the rear bearing, *d*, offsets *g*, center stop, *n*, serving as a stop and center of adjustment, and transversely-slotted end bearings, *k*, extending beyond said offsets, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

FRANK B. MANLY.

Witnesses:

C. F. SETTLE,
FRANK BELL.