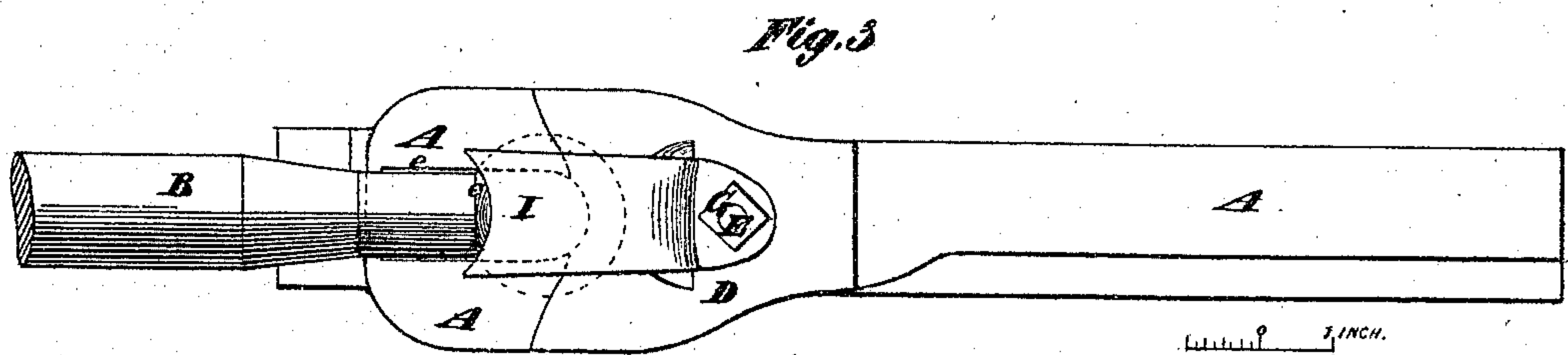
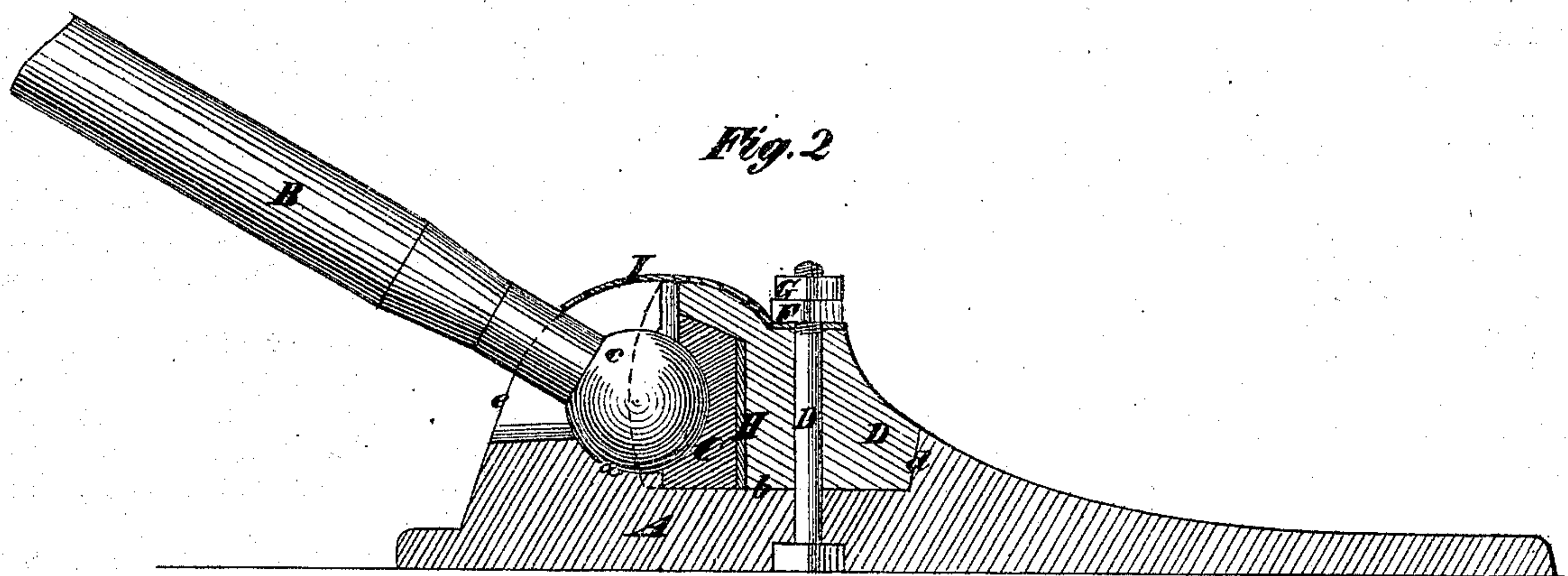
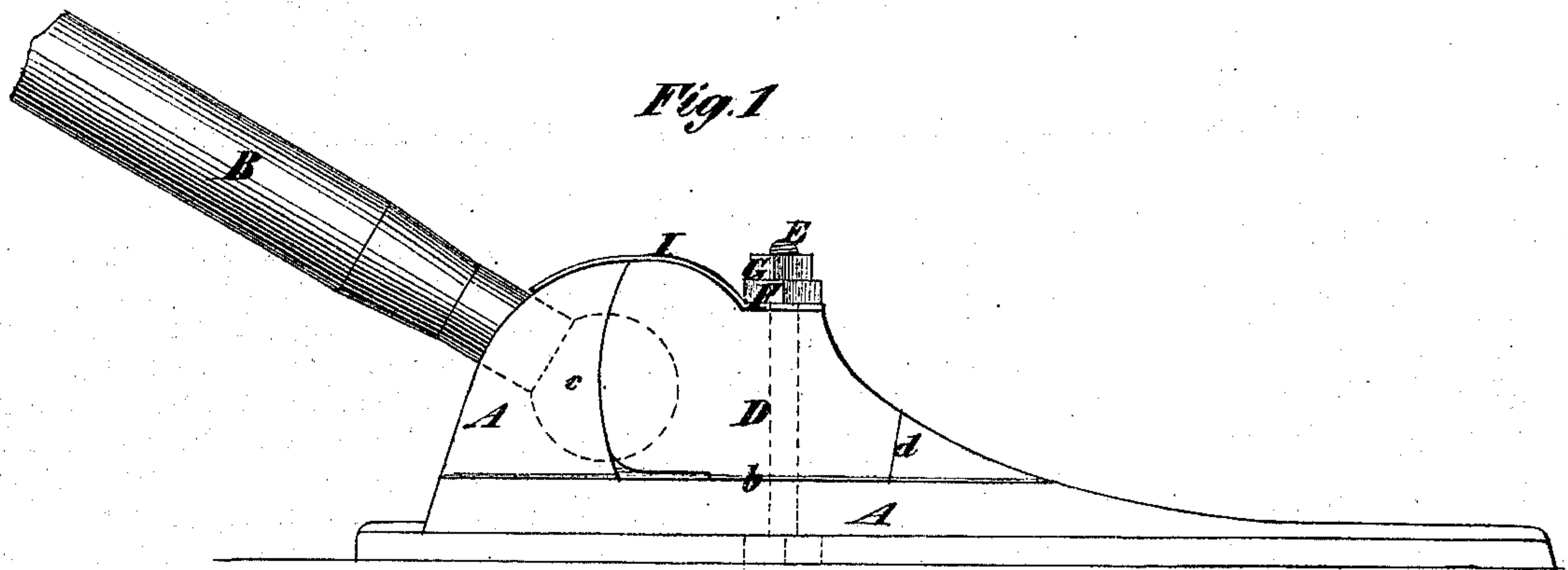


E.G. FISH.

Improvement in Pitman Rod Connection.

No. 122,715.

Patented Jan. 16, 1872.



Witnesses.
Geo. Hume
R. H. Hume

Edward G. Fish
per John Brown
Attorneys

UNITED STATES PATENT OFFICE.

EDWARD G. FISH, OF COLFAX, IOWA.

IMPROVEMENT IN PITMAN-ROD CONNECTIONS.

Specification forming part of Letters Patent No. 122,715, dated January 16, 1872.

To all whom it may concern:

Be it known that I, EDWARD G. FISH, of Colfax, in the county of Jasper and State of Iowa, have invented a new and useful Improvement on Pitman-rod Connections; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing forming part of this specification.

This invention relates to an improved construction of the pitman connection of a mowing or reaping machine, and is an improvement of one patented by me March 28, 1871, No. 113,039. It consists in a novel construction of the parts of the joint or connection and manner of securing them together whereby it is made more durable and capable of adjustment to compensate for the looseness consequent on wear. Sand or dirt is prevented from working into it, and other advantages are obtained.

In the accompanying drawing, Figure 1 is an outside view of my improved connection, Fig. 2 is a central longitudinal section of the same, and Fig. 3 is a top view or plan thereof.

Similar letters of reference indicate corresponding parts in all three figures.

A is the base piece of the connection intended to be secured by rivets or otherwise to the knife-rod of a mowing or reaping machine. It is of rectangular form, with a swelled portion on its outer side, in which there is formed a concave recess, *a*, that forms part of a socket for a ball, *c*, on the end of the pitman-rod B. Beyond this recess is another recess, *b*, of rectangular form. Extending from the said concave recess through the swelled portion of the base piece is a slot, *e*, for the reception of the pitman-rod, which is free to play therein during the reciprocating motion of the knives. The rectangular recess *b* is for the reception of a brass or any other suitable metal boxing, C, in which the other portion of the socket for the ball *c* is formed. This boxing fits within a removable piece, D, which is recessed at the middle portion opposite the slot *e* in the forward swelled portion of the base, and fits between said portion and a shoulder, *d*, on the rear portion of the base, as shown in the drawing. It is secured in place by a single bolt,

E, which passes through it and the base and which is provided on its projecting screw-threaded end with a nut, F, and jam-nut G. The said bolt also secures in place a shield or protector, I. Between the back of the boxing and the adjacent portion of the piece D is a packing piece or pieces, H, which may be changed or have others added to them to adjust said boxing as it wears up to the ball *c* on the end of the pitman. The shield I is made of sheet metal, preferably of steel on account of its elasticity, and covers the outer portion of the slot *e*, and is secured by the bolt E between the nut F and the piece D. It is of such thickness as to form a spring, whereby it is kept down and made to cover the exposed portion of the slot and prevent sand or dust from working into the connection. It may be turned aside to allow the pitman-rod to be raised for transportation. The general contour of the swelled portion of the base and the piece D is convex instead of flat, as in my former patent, and greater strength is thereby given to said parts. The ball *c* may either be formed on the pitman-rod or secured thereto in a detachable manner, so as to permit its renewal when worn out.

The connection thus made is very simple, strong, and durable, and its principal working parts may be renewed when worn out, and the pitman can be readily detached by simply unscrewing the nuts F and G and removing the piece D and boxing C.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of the swelled and recessed and slotted base A, the boxing C, the packing piece or pieces H, and the piece D, secured by a single bolt, E, the whole arranged substantially as described, for the purpose set forth.

2. The combination of the base A, piece D, and shield I, substantially as described, for the purpose set forth.

EDWD. G. FISH.

Witnesses:

JOEL WESTON,
HOMER L. WESTON.

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