

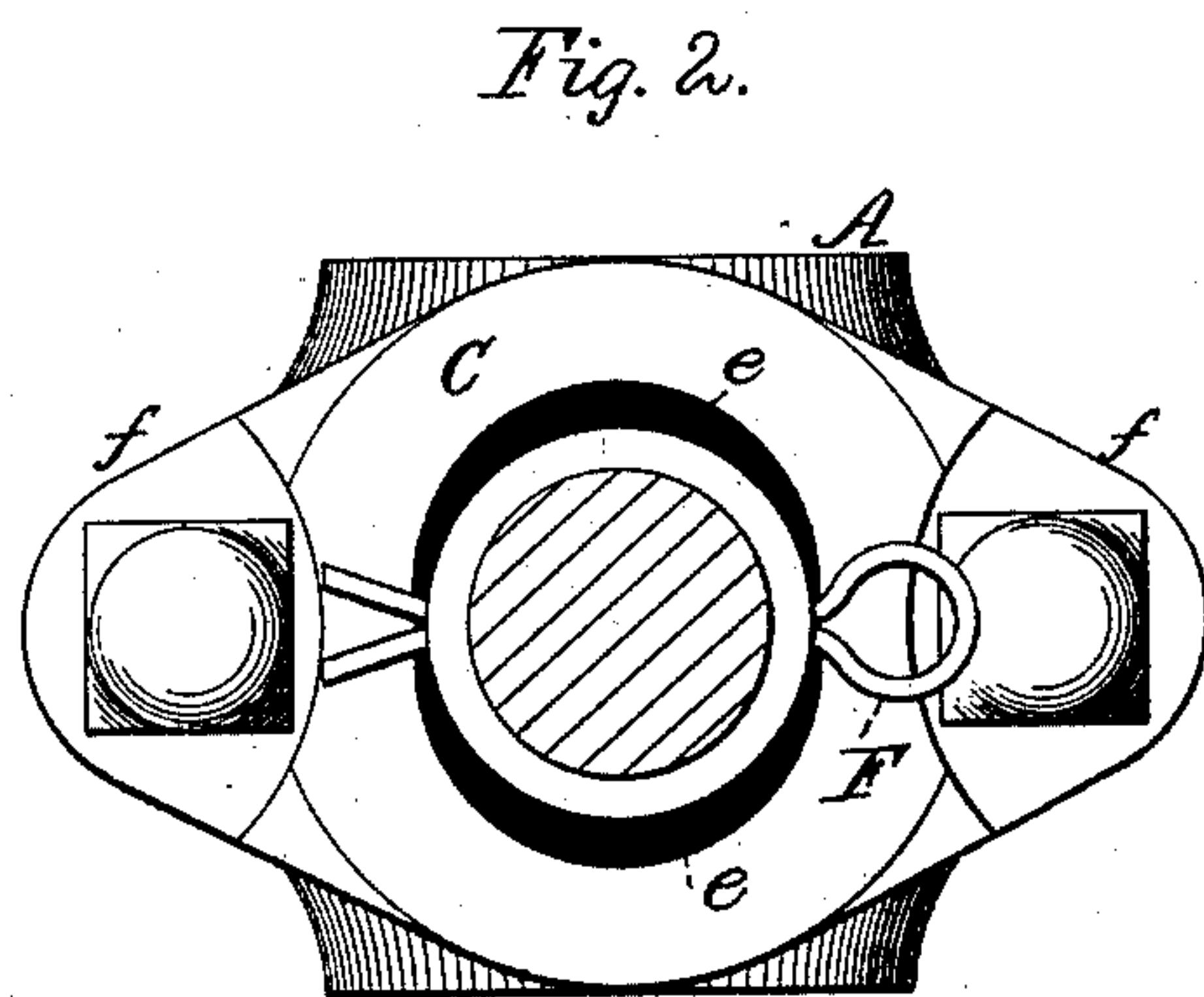
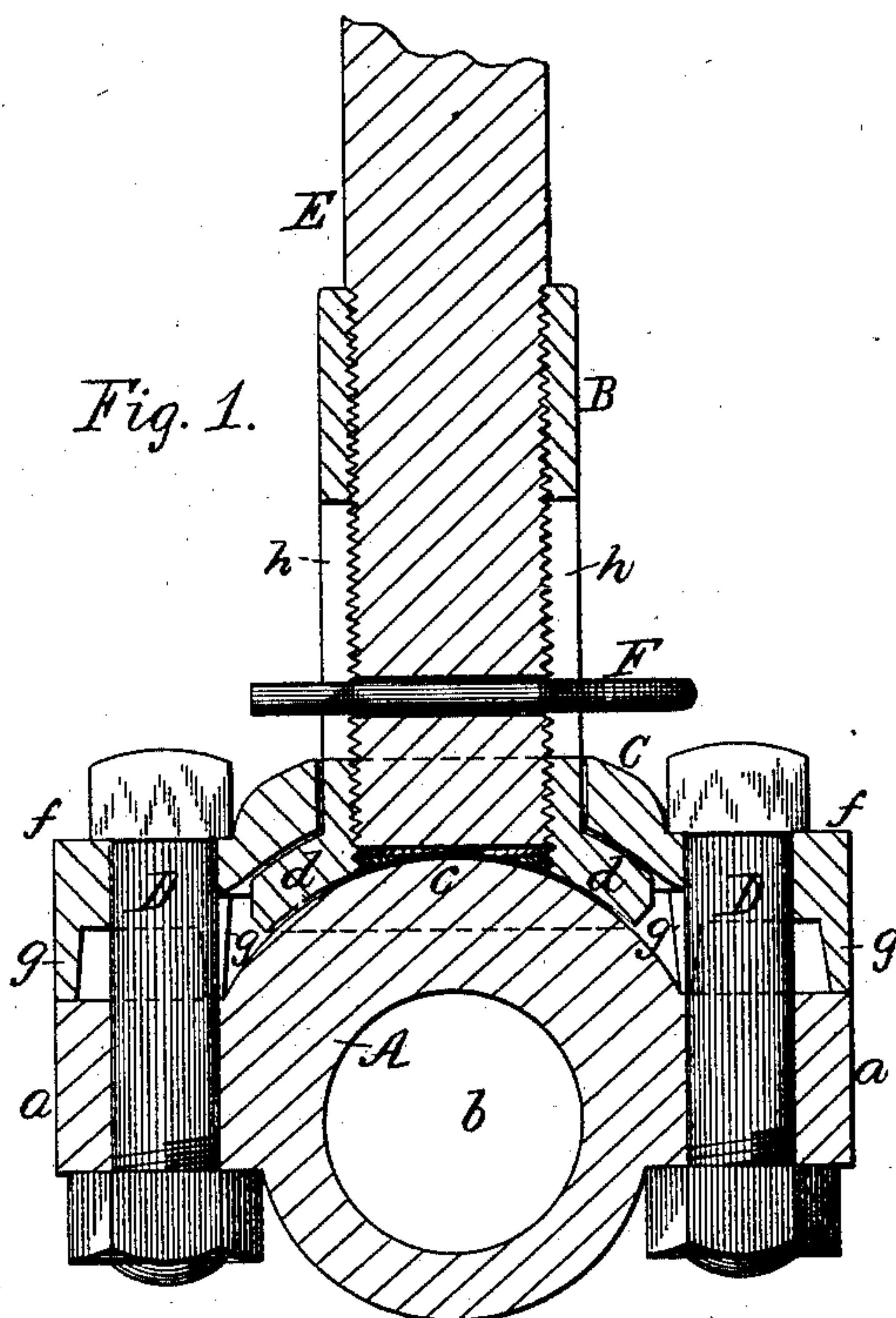
(No Model.)

O. D. BROWN.

PITMAN FOR MOWING MACHINES.

No. 362,058.

Patented May 3, 1887.



Witnesses:
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UNITED STATES PATENT OFFICE.

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PITMAN FOR MOWING-MACHINES.

SPECIFICATION forming part of Letters Patent No. 362,058, dated May 3, 1887.

Application filed February 15, 1887. Serial No. 227,714. (No model.)

To all whom it may concern:

Be it known that I, OWEN DORSEY BROWN, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Pitmen for Mowing-Machines, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention has for its object an improvement in the construction of wrist and pitman connections for mowing-machines, whereby all the advantages of a ball-and-socket-joint connection are obtained without the annoyance arising from the constant watching and frequent oiling necessary in such construction.

The novelty of my invention will be herein set forth, and specifically pointed out in the claims.

In the accompanying drawings, Figure 1 is a longitudinal central sectional view through the upper end of the pitman, its head, and the box. Fig. 2 is a plan view of the same.

The same letters of reference are used to indicate identical parts in both figures.

A represents the box provided with perforated side lugs, *a*, a bore, *b*, to receive the wrist-pin upon the fly-wheel, and with its side *c* next the pitman-head rounded or convex, to conform to the section of a sphere. The pitman-head B is an internally-threaded sleeve, provided at its end next the box with a concavo-convex flange, *d*, that fits upon the rounded side *c* of the box, and is held in place by a malleable clamp, C, having a concavo-convex central portion to fit over the flange *d* of the pitman-head and confine the same, but not so tightly as to prevent its free play within the limits of the aperture in the clamp through which the head passes. This aperture *e* is elongated horizontally to permit a slight lateral play to the pitman, but no vertical play, while at the same time the pitman-head is free to roll or turn with the different adjustments of the cutter-bar.

The clamp C is provided with perforated ears *f*, upon the under side of which are one

or more spacing-lugs, *g*, which rest upon the ears *a* of the box. The parts are held together by bolts D, which are passed through the perforations in the ears *a f*. The threaded end of the pitman E is screwed into the head B, and is held from turning by a spring key or pin, F, inserted through elongated slots *h* and an aperture in the pitman.

It will be seen from this connection of the pitman with its head that it can be lengthened or shortened at pleasure, and also that in case of wear the lugs *g* can be filed off as much as necessary to bring the clamp C down closer to compensate for such wear.

While I have described the clamp C as having a concavo-convex central portion, it will be observed that the exterior shape of said clamp is immaterial, and that it is only necessary that its under surface should be concave. By this construction I have all the convenience afforded by a ball-and-socket connection, together with the strength and durability of a straight wrist.

Having thus fully described my invention, I claim—

1. In a wrist-connection for the pitman of a mowing-machine, the combination of a box, A, having a convex bearing-surface next the pitman-head, the pitman-head having a concavo-convex flange to fit upon the convex portion of the box, and a clamp having a horizontally-elongated aperture for the passage of the pitman-head and a concavity to fit upon the flange of the same, the parts being united by bolts, substantially as and for the purpose specified.

2. In a wrist-connection for the pitman of a mowing-machine, the combination of a box, A, having a convex bearing-surface next the pitman-head, the pitman-head composed of an internally-threaded sleeve provided with slots *h* and having a concavo-convex flange to fit upon the convex portion of the box, and a clamp having a horizontally-elongated aperture for the passage of the pitman-head and a concavity to fit upon the flange of the same, the parts being united by bolts, substantially as and for the purpose specified.

3. The combination and arrangement of the box A, having perforated side ears, *a*, and a convex bearing-surface, *c*, clamp C, having the perforated ears *f*, spacing-lugs *g*, elongated aperture *e* and concave bearing on its inner side, the pitman-head B, threaded internally, having elongated slots *h* and concavo-

convex flange *d*, the bolts D, pitman E, and spring-key F, substantially as and for the purpose specified.

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