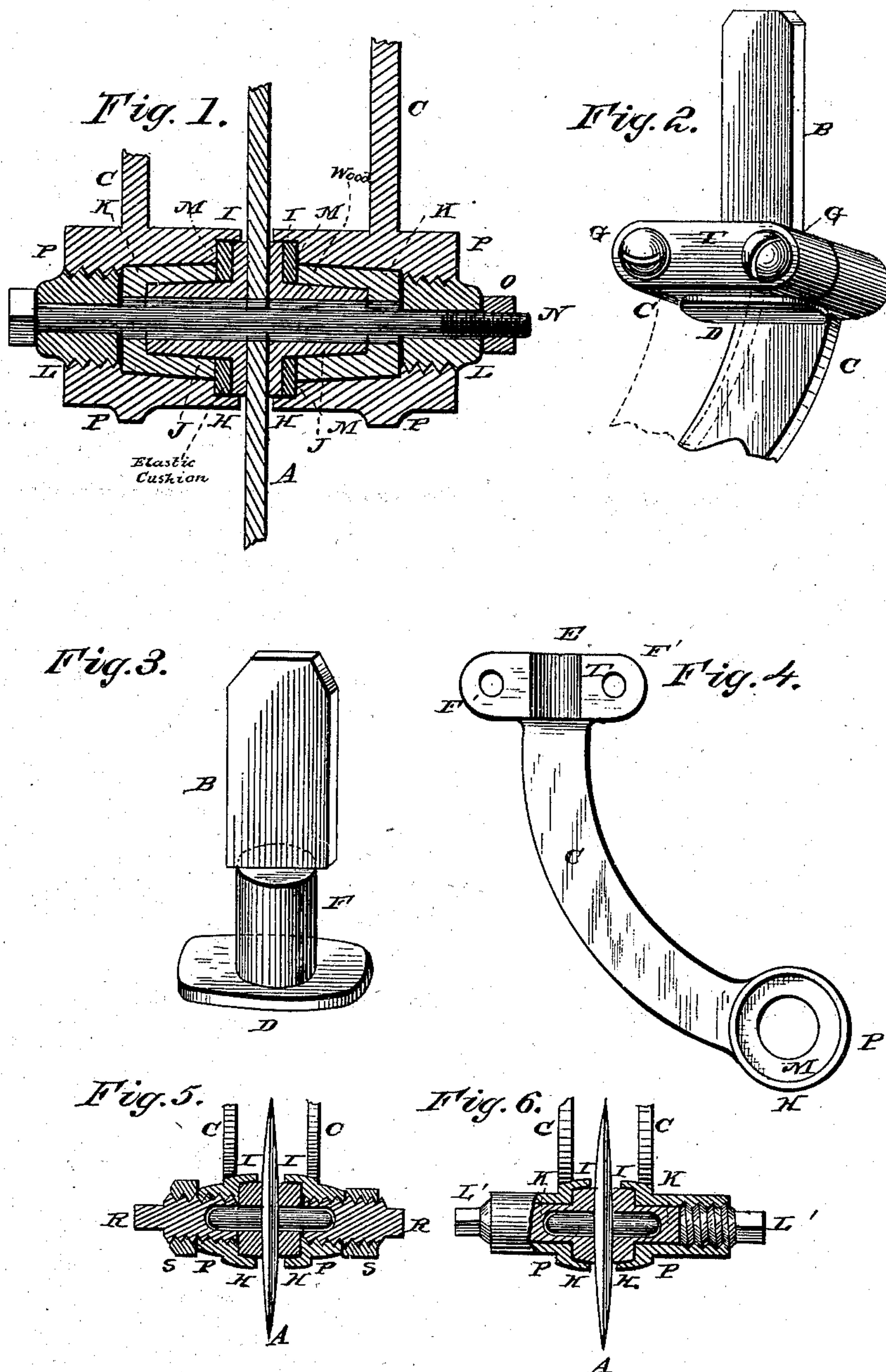


(No Model.)

F. B. HUNT.
ROLLING COLTER.

No. 255,081.

Patented Mar. 14, 1882.



WITNESSES

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FRANKLIN B. HUNT, OF RICHMOND, ASSIGNOR OF ONE-HALF TO D. B. ROB-
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ROLLING COLTER.

SPECIFICATION forming part of Letters Patent No. 255,081, dated March 14, 1882.

Application filed December 9, 1881. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN B. HUNT, of Richmond, in the county of Wayne and State of Indiana, have invented certain Improve-
5 ments in Rolling Colters, of which the follow-
ing is a specification.

My invention relates to improvements in journaling circular colters to the yokes by which they are secured to plows to adapt them to
10 withstand the increased strains to which they are subjected by use upon wheel-plows, and also to provide a journal and bearings which will operate without the use of oil, all as hereinafter fully described and set forth in the
15 specification and claims.

Figure 1 is a longitudinal vertical section through the axis of the colter and adjacent mechanism. Fig. 2 is a perspective of the colter-shank and a portion of the upper end of the yoke by which the colter is suspended.
20 Fig. 3 is a perspective of the colter-shank by which the colter is suspended from the plow-beam. Fig. 4 is a plan of one-half of the colter-yoke. Figs. 5 and 6 are longitudinal sections
25 of modifications of the invention.

A is the rolling colter. B is the shank by which the colter is suspended from the plow-beam by means of the arms C, forming a colter-yoke. These arms C are cast in pairs, one of
30 which is seen at Fig. 4, and provided with the hollow part P, which hollow parts P are provided with cups or recesses H for the cushions I, as seen in Figs. 1, 5 and 6. The upper ends of these arms C are provided with an elongated
35 head, T, as seen in Figs. 2 and 4. These elongated ends are provided with holes F' for the bolts G. The center of this head is provided with a half-circle bearing or recess, E, which, when the arms are put together and in place,
40 forms a circle and fits on the neck F of the shank B to form a colter-yoke. The neck F is provided with an elongated head, D, which rests between the arms C, as seen at Fig 2, and, being slightly tapering toward the ends, allows
45 the arms C, forming the colter-yoke and carrying the colter, to vibrate sufficiently for the colter to adjust itself at all times to the line of draft, and also holds the yoke upon the neck F of the shank B. The arms C are cast, preferably of steel, to stand great strain, and formed

ready for use without fitting, and provided with the holes F' F', recesses E for the neck F, and recesses H for the cushions I.

Figs. 5 and 6 are modifications of Fig. 1.

In Fig. 1, J are journals with flanges to rest
55 against the colter, and attached thereto in any suitable manner. The bearings K K for the journals J are made of hard wood, and boiled in tallow and plumbago to form a bearing for the journals which does not require oil, this
60 being a great desideratum, as the carelessness or neglect of operatives to properly oil the journals of a rolling colter causes it to cut out rapidly, as it is continually exposed to dirt and
65 grit from the soil. The cushions I rest against the flanges of the journals J. The cups or recesses H extend over the cushions and embrace the edges of the flanges. The shoulders or bot-
70 toms M of the cups H press against the outer portion of the cushions, and the wooden bear-
ings K press against the inner portion of the cushions by means of the hollow screw-plugs
75 L L pressing against the bearings. The bolt N has its bearing in the hollow screw-plugs L L alone to prevent all contact or friction with
the bearing J J and K K, and it will be read-
ily seen that the office of this bolt is to clamp the outer edge of the cushions through the
means of the screw-plugs L and bottom M of the cups or recesses. The socketed parts P P,
80 attached to the lower ends of the arms C, are threaded at their outer ends to receive the hollow screw-plugs L L. The inner edges of the recesses H lap over the edges of the flanges of the bearing J, and keep out the greater portion
85 of the dirt, and the cushions fitting snugly in their places, as plainly seen at Fig. 1, make a journal-bearing absolutely dust-proof.

The cushions I may be made of leather, rub-
ber, or any suitable material.

The wooden bearings K may be replaced
90 with metal bearings, and oil used, if desired, as the journals are free from dust; but I greatly prefer the wood, as it suffers no harm from neglect.

The inner surfaces of the socketed parts P P
95 for the bearings K may be made square, octagonal, or any other desired shape.

Fig. 6 represents another construction of wooden bearings for the colter-journal, with
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cups or recesses, as above, attached to the arms C for the cushions I, and provided with wooden bearings K and screw-plugs L'.

Fig. 5 represents threaded metal bearings R R, held in place, when adjusted, by means of jam-nuts S S, and having the cups or recesses H and cushions I in a similar manner to Fig. 6.

I am aware that arms or pendants carrying a rolling colter and provided with cups or recesses at their lower ends are not new. Such I do not claim; but

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

1. The arms C, provided with the recess E and holes F', in combination with the shank B, provided with the neck F, and elongated head D, and bolts G, substantially as set forth.

2. In combination with the journal of the rolling colter A, the cups H, cushions I, bearings K, and screw-plugs L, substantially as set forth.

3. In combination with the rolling colter and the socketed part P, the cushions I, wooden bearings K, and screw-plugs L, substantially as set forth.

4. In combination with the rolling colter and socketed part P, the wooden bearings K K, hollow screw-plugs L L, and bolt N, substantially as shown and described.

5. In combination with the socketed part

P and the bearings J of the rolling colter, the wooden bearings K, cushions I, and screw-plugs L, substantially as set forth.

6. The cups H, arranged to pass beyond the cushions I and embrace the flanges of the bearings J, in combination with said cushions, bearings K, and screw-plugs L, substantially as shown and described.

7. The cups H, arranged to pass beyond the cushions I and embrace the flanges of the bearings J, in combination with said cushions, bearings K, screw-plugs L, and bolt N, substantially as set forth.

8. In combination with the arms C C and socketed portions P P, provided with the screw-plugs L L, the bolt N, substantially as shown and described.

9. In combination with the arms C C and socketed portions P P, provided with the screw-plugs L L and cups or recesses H H, the bearings J K, cushions I I, and bolt N, substantially as set forth.

10. In combination with the socketed portions P P, provided with the recesses H and cushions I, the screw-plugs L L, and bolt N, substantially as shown and described.

FRANKLIN B. HUNT.

Witnesses:

BALLARD MORRIS,
DANIEL BREED.