

(No Model.)

2 Sheets—Sheet 1.

M. T. COLE.

CLEVIS.

No. 396,859.

Patented Jan. 29, 1889.

Fig. 2.

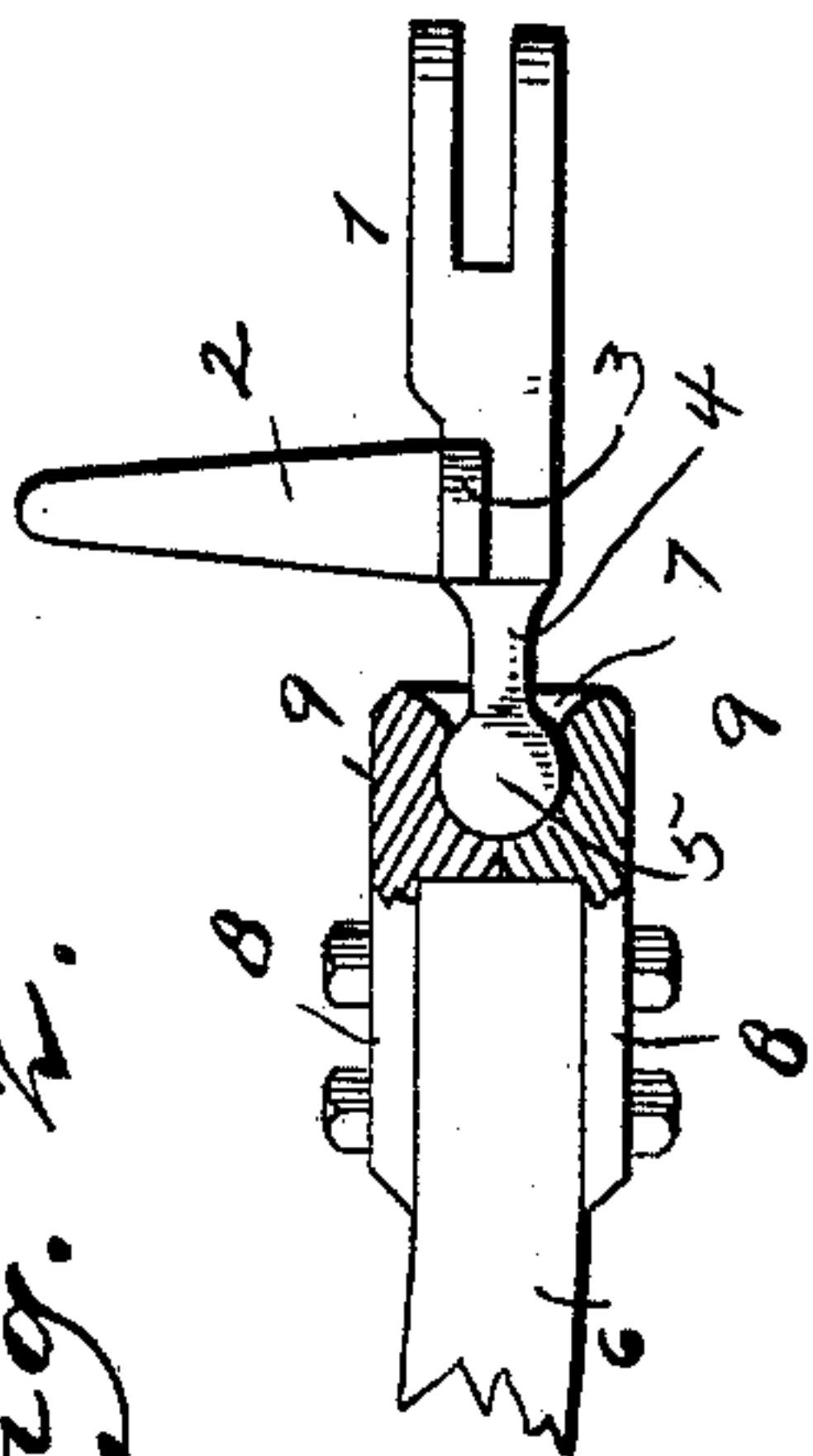
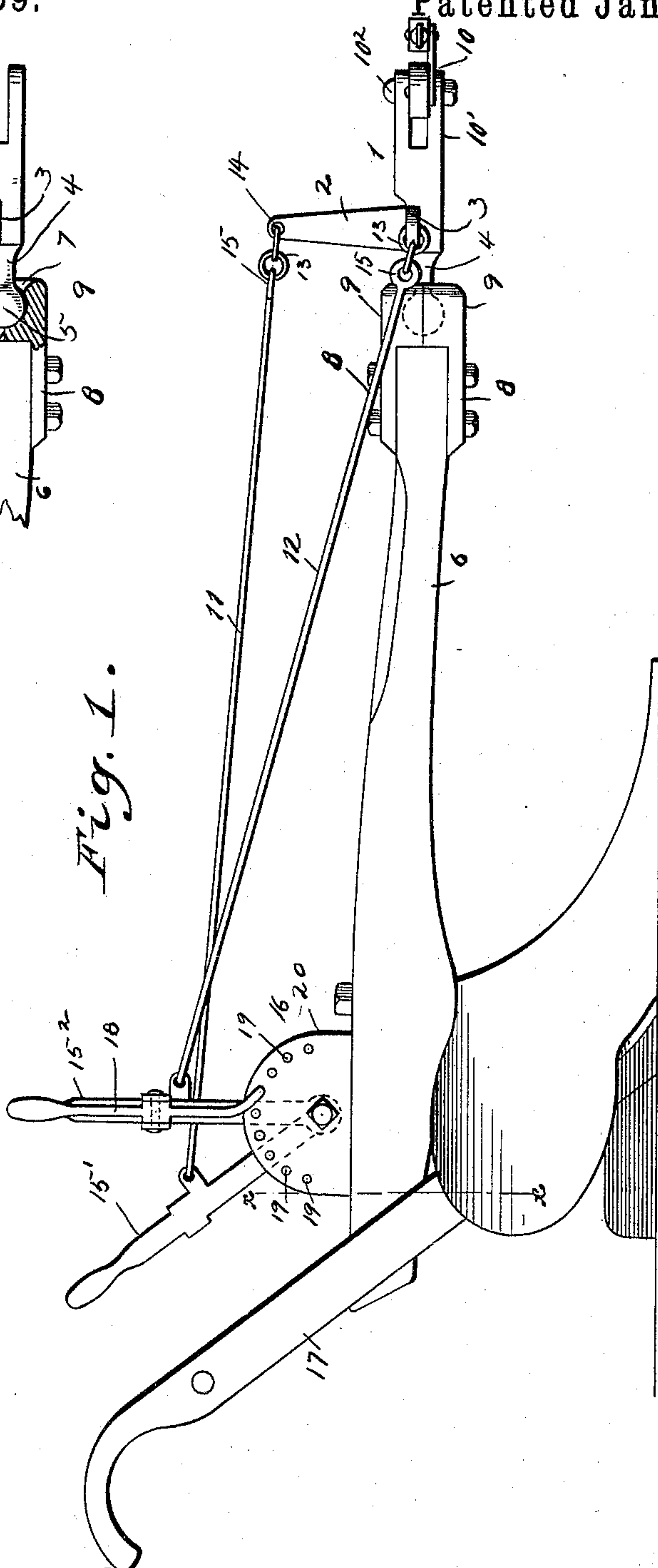


Fig. 1.



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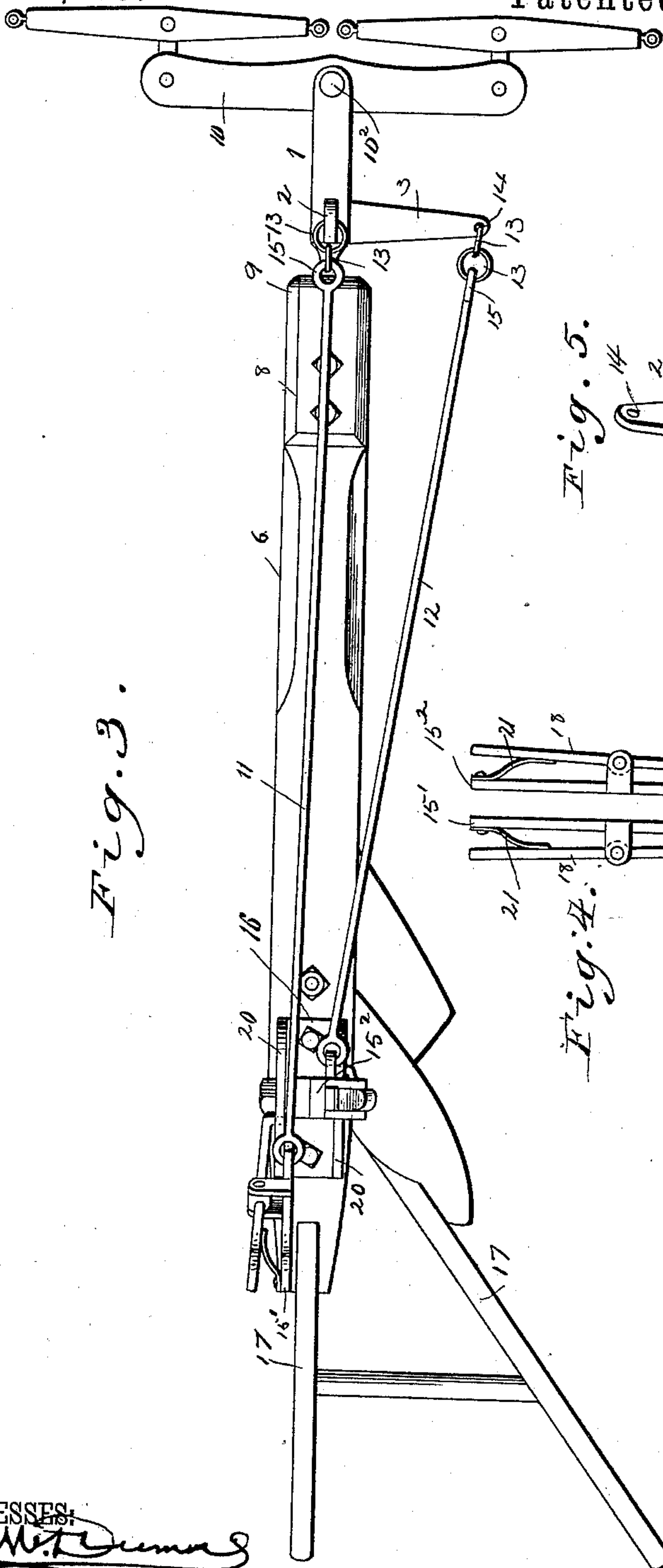


Fig. 3.

Fig. 5.

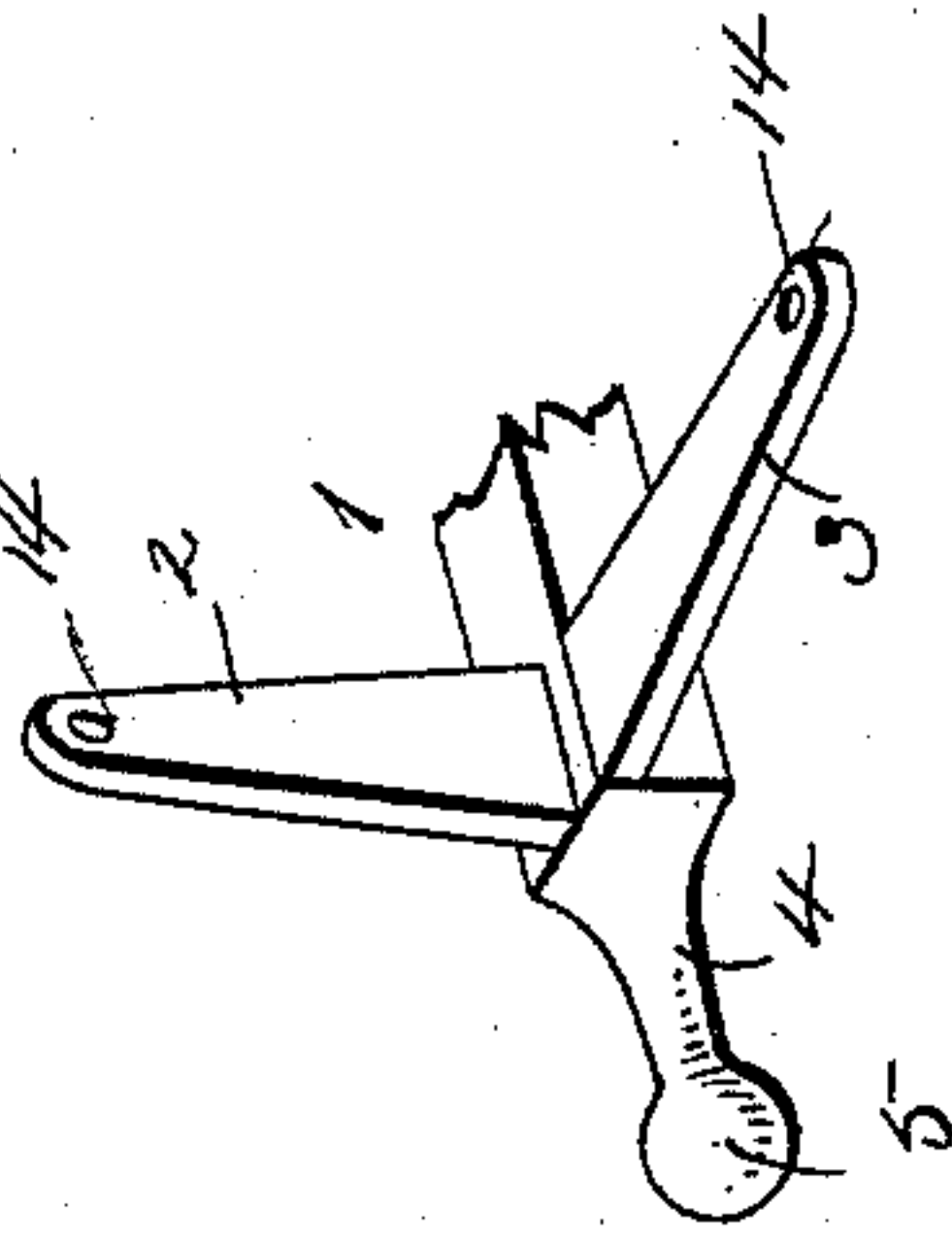
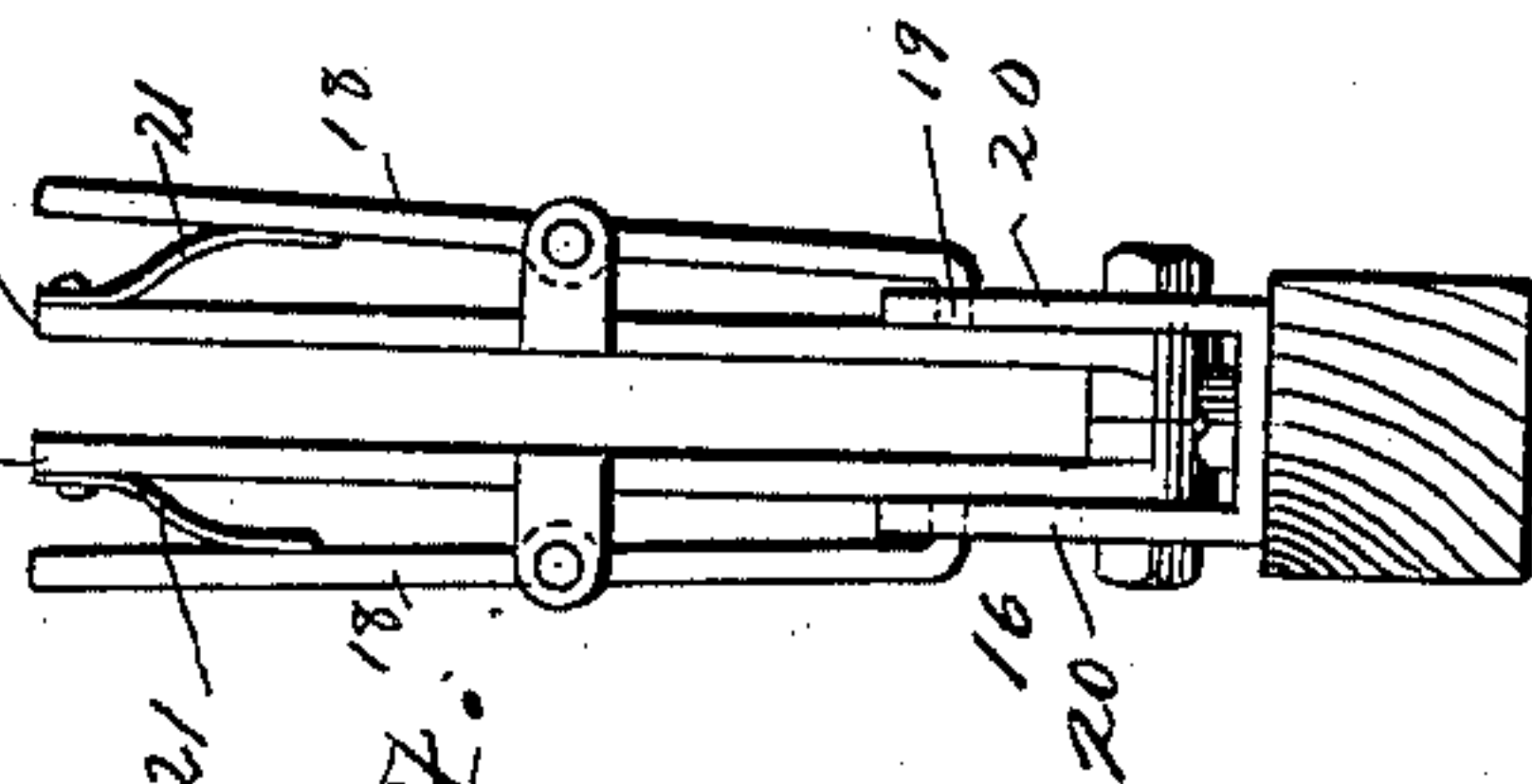


Fig. 4.



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UNITED STATES PATENT OFFICE.

MARSHAL T. COLE, OF CLAREMONT, MINNESOTA.

CLEVIS.

SPECIFICATION forming part of Letters Patent No. 396,859, dated January 29, 1889.

Application filed May 19, 1888. Serial No. 274,433. (No model.)

To all whom it may concern:

Be it known that I, MARSHAL T. COLE, of Claremont, in the county of Dodge and State of Minnesota, have invented a new and Improved Clevis, of which the following is a full, clear, and exact description.

This invention relates to clevises for plows, and has for its object to provide a clevis and mechanism for adjusting the same, whereby the clevis may be maintained in proper position during irregular movement of the plow and team.

The invention consists in a device for this purpose constructed and arranged as herein-after described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a side view of a plow, showing the invention applied thereto. Fig. 2 is a detail view, partly in section and broken away, showing the clevis and its connection with a plow-beam. Fig. 3 is a plan view of the invention shown in Fig. 1. Fig. 4 is a detail view, partly in vertical section, on the line x , Fig. 1; and Fig. 5 shows the clevis detached and partly broken away.

In the construction of this invention I employ a clevis, 1, formed with a vertical arm, 2, and a lateral arm, 3. The rear of the clevis 1 is formed with an arm, 4, terminating in a knob or ball, 5, and is connected to a plow-beam, 6, by the ball 5, resting in the socket 7, preferably formed by two castings, 8, bolted to the end of the plow-beam 6 and having their recessed heads 9 fitting together, as shown. By means of this construction a clevis is provided having a universal-joint connection adapted for any irregular movement of the plow or team.

In order to hold up the clevis 1 and with it an evener, 10, connected to its forked end 10' by pin 10², and also to maintain the clevis in different positions for irregular positions of the plow or team, the arms 2 and 3 are provided with adjusting-rods 11 and 12, respectively connected thereto by rings 13, engaging holes 14 on the arms and eyes 15 on the rods 11 and 12, thereby giving a slight yielding connection to allow for thrusts. The rods 11 and 12 are connected at their other ends to le-

vers 15' and 15², pivoted within a U-shaped metallic bracket, 16, secured to the plow-beam 6, adjacent to the arms 17 of the plow. The levers 15' and 15² are held in adjusted position by means of catch-levers 18 pivoted thereto and adjustably engaging a series of holes, 19, in the wings 20 of the U-shaped bracket 16, the catches 18 being held in engagement by means of springs 21. By means of this construction it will be seen that the person guiding the plow can conveniently adjust the clevis 1 to different positions by the levers 15' and 15².

If it be desired to maintain the clevis 1 in an elevated position and in line with the plow-beam, the levers 15' and 15² are thrown back to adjusted position, as shown in Fig. 1, the rods 11 and 12 drawing the arms 2 and 3 to vertical and horizontal positions, respectively, at right angles to the plow-beam. The clevis 1 may be held at a horizontal angle to the plow-beam at the right or left by adjusting the lever 15² backward or forward from the vertical position thereof, (shown in Fig. 1,) or be vertically lowered or raised by adjusting the lever 15' backward or forward.

It will thus be seen that by the use of this invention the draft-connection is adapted in the use of the plow for a gradual or instant change of depth of work, for a gradual or instant change of width of work, or for both simultaneously. In short, by means of the invention, a plow can be used for all kinds of work, whether for surface of headland, different kinds of furrows, or variable soil.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with the socketed end of a plow-frame, of a clevis having a ball on its end fitted in said socket, laterally-extending vertical and horizontal arms on said clevis, and rearwardly-extending rods connected to said arms, substantially as described.

2. The combination, with a plow-frame, of a clevis connected thereto by a universal joint, lateral arms formed on said clevis, and levers having connections with said arms for adjusting said clevis, substantially as described.

3. The clevis 1, having vertical arm 2, horizontal arm 3, and rearwardly-extending arm 4, with ball 5, substantially as described.

4. The combination, with plow-beam 6, hav-

ing castings 8, with recessed heads 9, forming socket 7 and secured to plow-beam 6, of the clevis 1, having vertical arm 2, horizontal arm 3, rear arm, 4, with ball 5, located in recess 7, 5 and the rods 11 and 12, connected to arms 2 and 3, with levers 15' and 15², pivoted to plow-beam 6 and having spring-actuated catch-le- vers 18, and the brackets 20, with series of holes 19, with which catch-levers 18 engage, substantially as described.

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Witnesses:

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