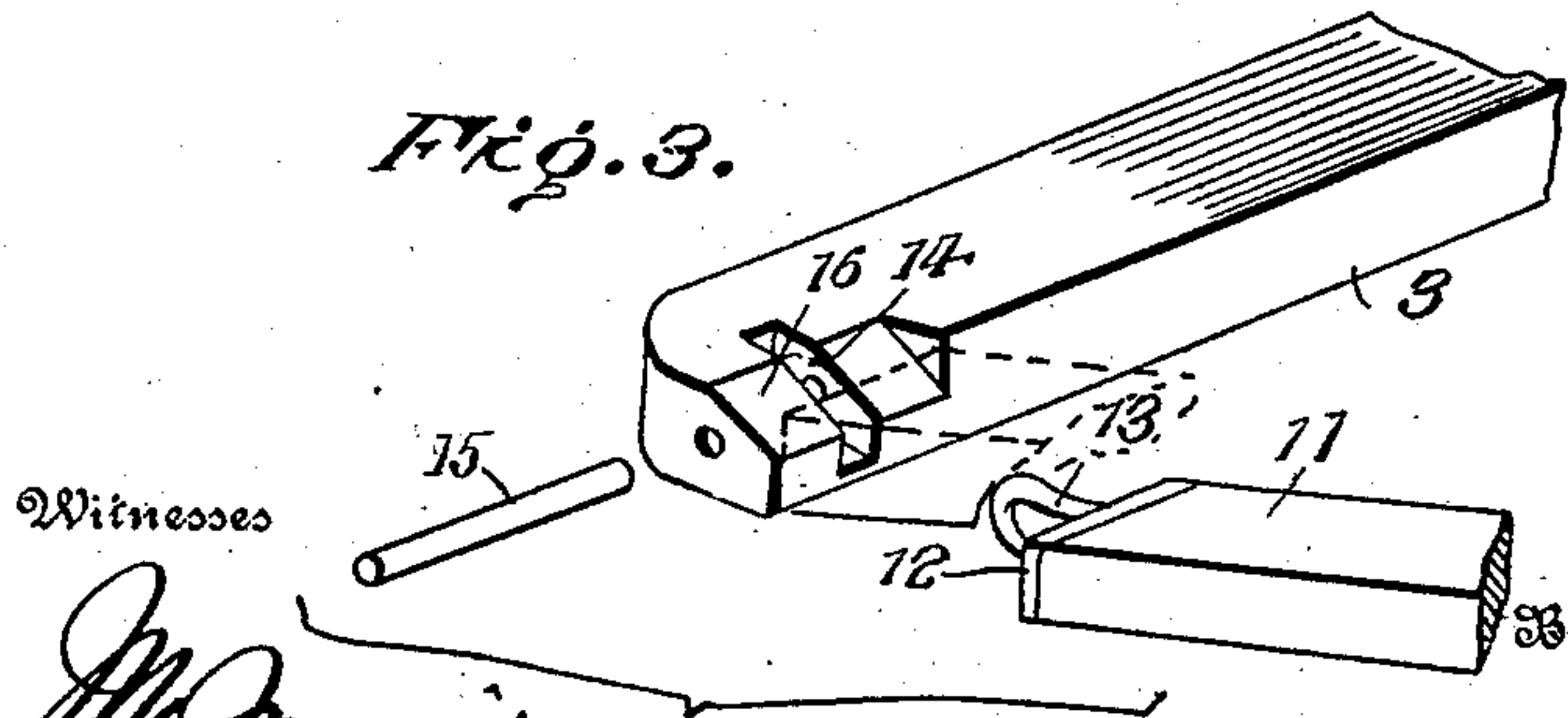
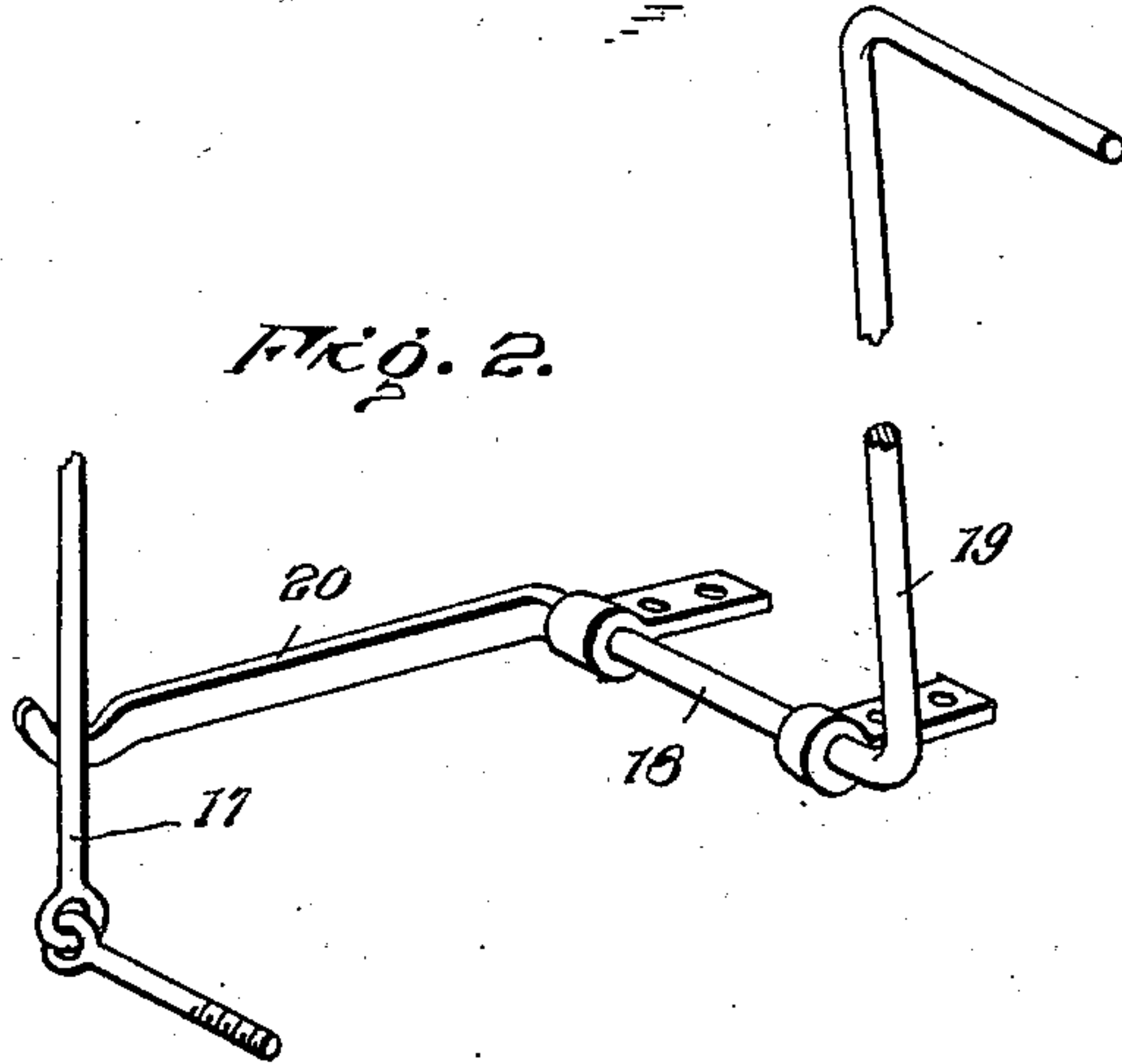
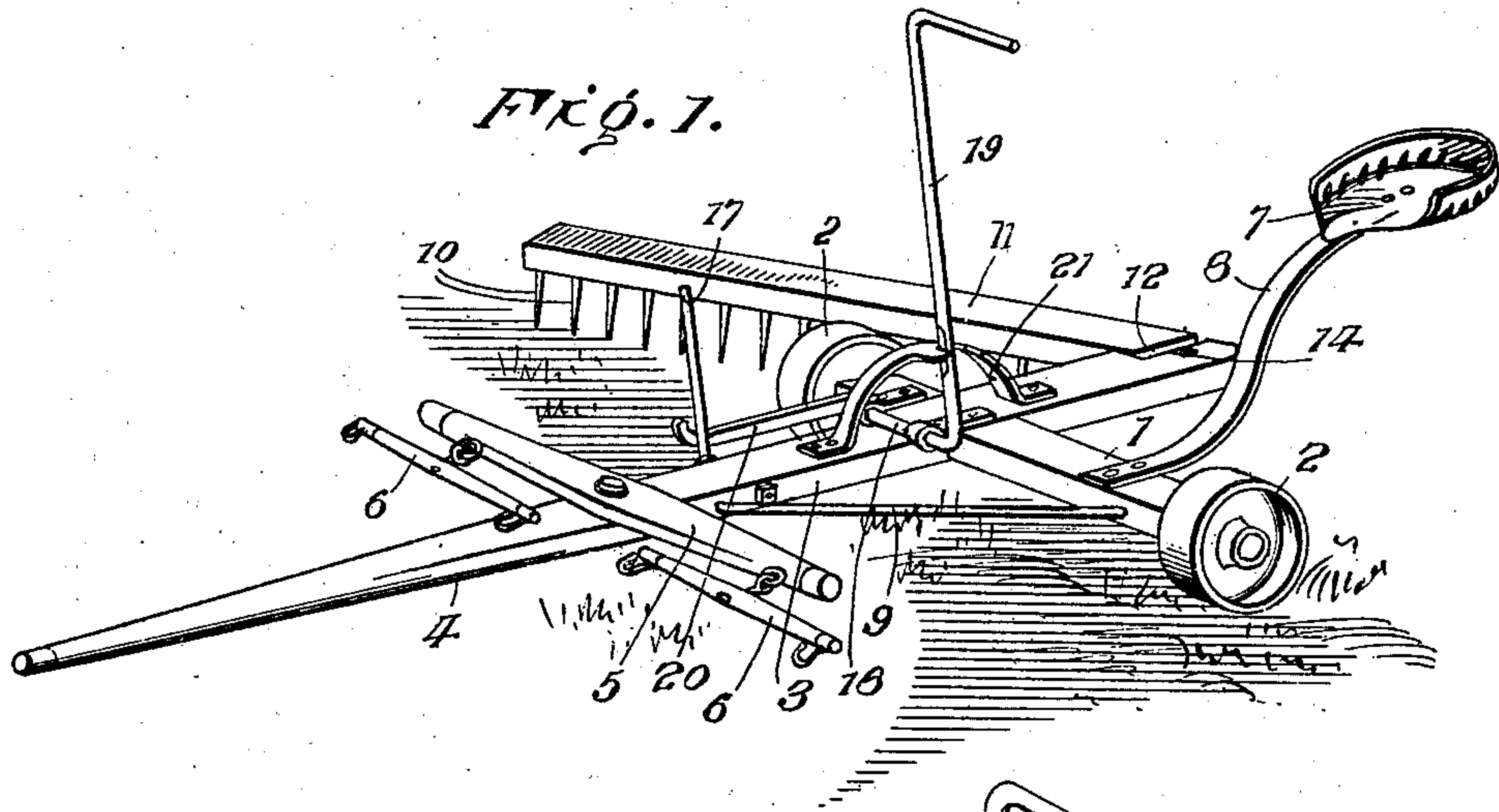


No. 884,348.

PATENTED APR. 7, 1908.

B. F. APLIN.
COMBINED HARROW AND PLOW.
APPLICATION FILED JUNE 14, 1907.



Witnesses

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UNITED STATES PATENT OFFICE.

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COMBINED HARROW AND PLOW.

No. 884,348.

Specification of Letters Patent.

Patented April 7, 1908.

Application filed June 14, 1907. Serial No. 378,978.

To all whom it may concern:

Be it known that I, BENJAMIN F. APLIN, citizen of the United States, residing at Texola, in the county of Greer and State of Oklahoma, have invented certain new and useful Improvements in Combined Harrows and Plows, of which the following is a specification.

The present invention relates to certain new and useful improvements in agricultural implements and more particularly to a novel cultivating device which is peculiarly designed so as to be employed either as a harrow or as a plow in connection with orchards and hedges.

The object of the invention is to provide an implement of this character which operates in an efficient manner to loosen and pulverize the earth, and which embodies novel means whereby the cultivating members can be readily elevated out of an operative position.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of the implement. Fig. 2 is a detail view of the mechanism for elevating the cultivating members when it is desired to retain them in an inoperative position. Fig. 3 is a detail view of the hinged connection between the stock and beam carrying the cultivating teeth.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Specifically describing the invention the numeral 1 designates a cross bar having the supporting wheels 2 mounted upon the opposite end portions thereof. The stock or body portion 3 of the implement is disposed longitudinally and is connected at an intermediate point to the cross bar 1 at a point toward one of the ends of the latter. The forward extremity of the stock 3 terminates in the draft tongue 4 having the whiffletree 5 mounted upon the rear portion thereof. In the present instance a swingletree 6 is shown as applied to each end of the said whiffletree. Located at the opposite end of the cross bar 1 to that bearing the stock 3 is a seat 7 which is of the conventional construction and is shown as supported upon a spring member

8. It may also be observed that this end of the cross bar 1 is connected to the forward portion of the stock 3 by means of a diagonal brace member 9.

The cultivating teeth 10 are carried by the beam 11 extending forwardly and laterally from the rear end of the stock 3 and having the extremity thereof pivotally connected to the same. Specifically describing this connection it will be observed that the rear end of the beam 11 is beveled laterally at 12 and provided with an eye 13 which is received within a transverse groove 14 in the stock 3 and is engaged by a pin 15 driven into the end of the stock and entering the said groove. In order to facilitate the swinging movement of the beam 11 required to elevate the teeth 10 into an inoperative position, the portion of the stock 3 adjacent the beveled end 12 of the beam is preferably cut away as indicated at 16.

The forward portion of the beam 11 is provided with a laterally extending arm 17 which is loosely connected to the stock 3 and serves to retain the beam in its proper position. A transverse shaft 18 is journaled upon the stock 3, one end of the shaft being provided with a crank portion 20 while the opposite end is formed with an operating lever 19. The extremity of the crank portion 20 is extended upwardly and loosely engages the arm 17 whereby upon turning the shaft 18 the beam 11 can be swung upwardly and the cultivating teeth 10 held in an elevated position. The operating lever 19 extends upwardly so as to be conveniently grasped by a person upon the seat 7 and engages a rack 21 by means of which it can be locked in an adjusted position.

Having thus described the invention, what is claimed as new is:

1. In a device of the character described, the combination of a stock, a beam projecting laterally from the stock and loosely connected thereto, cultivating members carried by the beam, an arm connecting the beam to the stock, and means coöperating with the arm for elevating the beam.

2. In a device of the character described, the combination of a transverse bar, a stock mounted upon the bar, supporting wheels for the bar, a beam loosely connected to the stock, cultivating members carried by the beam, an arm connecting the beam to the stock, and means engaging the arm for

swinging the beam to adjust the cultivating members.

3. In a device of the character described, the combination of a stock, a beam projecting laterally from the stock and loosely connected thereto, cultivating members carried by the beam, an arm connecting the beam to the stock, a shaft journaled upon the stock, and a crank arm carried by the shaft and engaging the before mentioned arm for swinging the beam to adjust the cultivating members.

4. In a device of the character described, the combination of a stock, supporting means for the stock, an obliquely disposed beam having one end thereof loosely connected to the stock, cultivating members carried by the beam, an arm connecting the opposite end portion of the beam to the stock, a shaft journaled upon the stock and carrying a crank portion designed to engage the arm, and a lever for operating the shaft to raise and lower the beam.

5. In a device of the character described, the combination of a stock, supporting means

for the stock, the said stock having a groove formed therein, a beam provided with an eye received within the groove, a pin extending within the groove and received by the eye, cultivating members carried by the beam, and means for swinging the beam to adjust the said cultivating members.

6. In a device of the character described, the combination of a stock having a groove formed therein, supporting means for the stock, an obliquely disposed beam having one end thereof beveled and provided with an eye received within the before mentioned groove, a pin entering the groove and engaging the eye, cultivating members carried by the beam, and means for swinging the beam to adjust the cultivating members.

In testimony whereof I affix my signature in presence of two witnesses.

BENJAMIN F. ^{his} X APLIN. [L. s.]
markj

Witnesses:

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J. R. HUTTO.