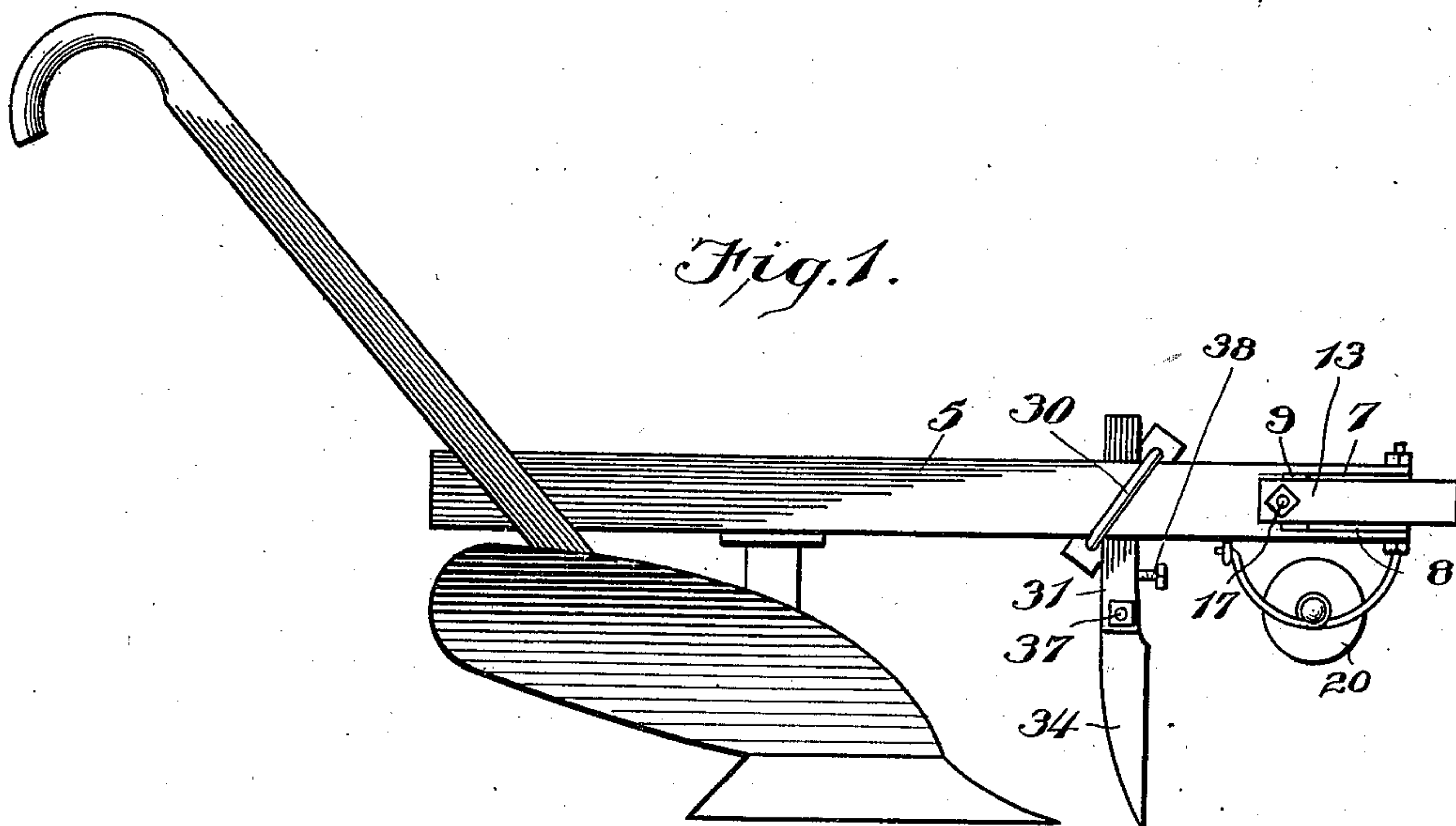


No. 728,236.

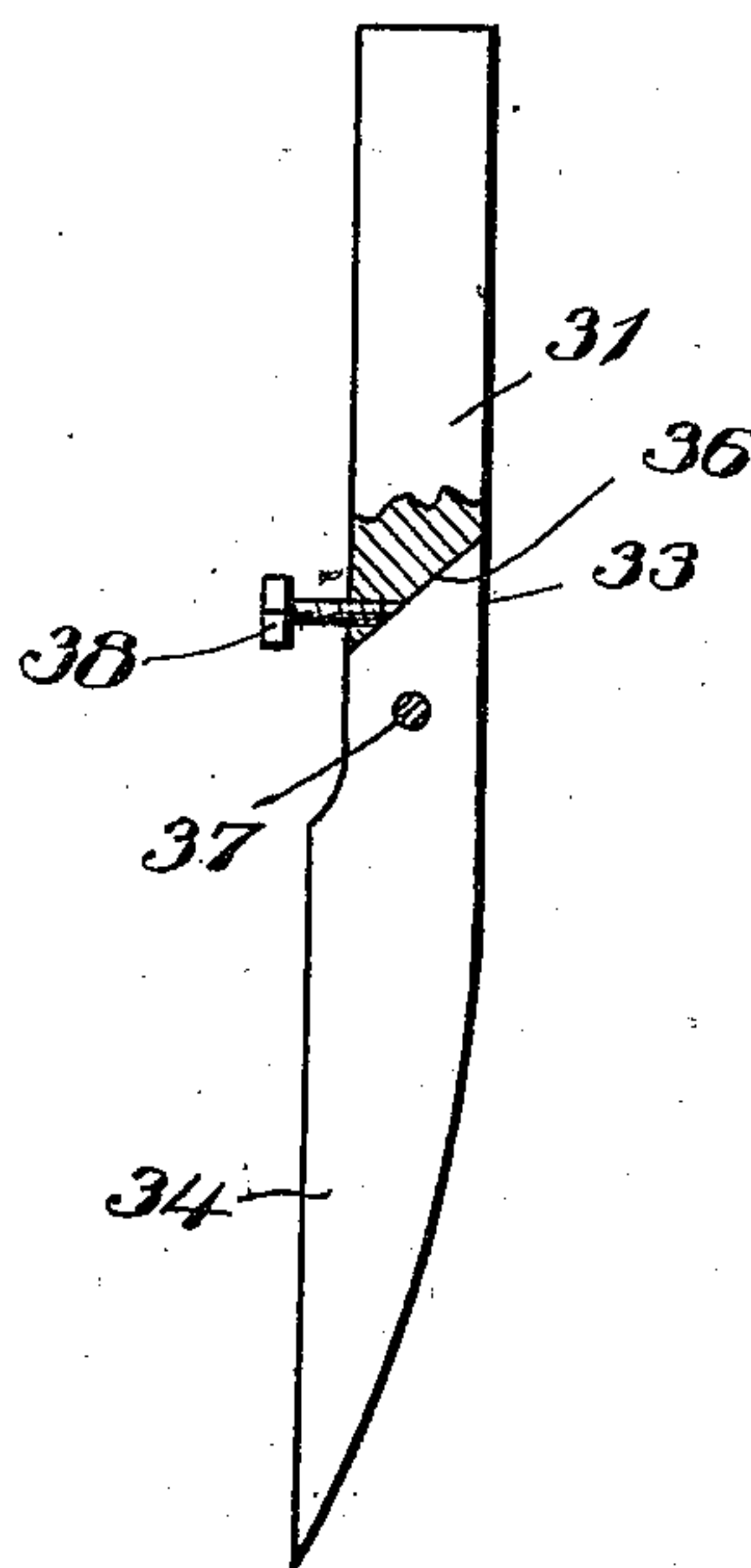
PATENTED MAY 19, 1903.

H. T. HUGHES.  
COLTER AND PLOW.  
APPLICATION FILED JUNE 2, 1902.

NO MODEL.



*Fig. 2.*



Witnesses

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# UNITED STATES PATENT OFFICE.

HUGH T. HUGHES, OF EDMESTON, NEW YORK, ASSIGNOR OF TWO-THIRDS  
TO BERT MILLER AND DAVID L. CHAPIN, OF EDMESTON, NEW YORK.

## COLTER AND PLOW.

SPECIFICATION forming part of Letters Patent No. 728,236, dated May 19, 1903.

Application filed June 2, 1902. Serial No. 109,868. (No model.)

*To all whom it may concern:*

Be it known that I, HUGH T. HUGHES, residing at Edmeston, in the county of Otsego, State of New York, have invented certain new and useful Improvements in Colters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to plows in general, and more particularly to colters therefor, the object of the invention being to provide a colter which may be adjusted to enter the earth at different angles, other objects and advantages of the invention being understood from the following description.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in both views, Figure 1 is a side elevation showing a plow embodying the present invention. Fig. 2 is an enlarged side elevation of the colter.

Referring now to the drawings, there is shown a plow comprising a beam 5, to which are connected the usual share and accompanying parts. At the forward end of the plow-beam is a supporting-wheel 20, the axle of which is engaged with a bracket 21, having an arm 22, which is taken upwardly through the forward end of the beam and is threaded for engagement by nuts 23 and 24, which are caused to impinge against the upper and lower faces of the beam and hold the end of the beam from splitting, the bracket having thus a double function. The other arm, 25, of the bracket is provided with a hook 26, engaged with an eye 27 on the under side of the beam, so that the bracket may be readily connected and disconnected, the metal of the bracket being sufficiently resilient to permit of springing the hook into and out of the eye. On one side face of the plow-beam is secured a U-shaped clip 30, adjustably connected and which receives the body of a colter, the adjustable mounting of the clip permitting the clip to be moved to clamp the colter-body firmly in place. The lower end of the colter-body 31 is slotted vertically, and in this slot is disposed the upper end of the stem 33 of a colter-blade 34, held in place by

means of the pivot 37. The upper end of the stem of the colter-blade is cut bias, as shown at 36, and the upper wall of the slot of the body 31 is at the same angle, so that when the blade aligns with the body these bias faces are in continuous contact. A set-screw 38 is engaged with the threaded perforation through the lower portion of the body 31 of the colter and is adapted for adjustment into the slot of the body to hold the blade at different angles to the body while in action. The set-screw, however, does not prevent rearward pivotal movement of the blade. The pivot of the blade of the colter is formed by a bolt having a nut, so that the blade may be loosened to permit of adjustment of it and may be then clamped firmly against movement. With this construction the blade may be set at any desired angle. To adjust the colter-blade to the proper angle to hold it positively against rearward movement from its adjusted position, a set-screw 38 is passed through a threaded perforation in the body of the colter, so that its end will lie in the path of movement of the stem of the colter-blade. When the screw is screwed inwardly, the colter-blade is moved on its path with its lower end upwardly.

It will be understood that in practice modifications of the specific construction shown may be made and that any suitable materials and proportions may be used for the various parts without departing from the spirit of the invention.

What is claimed is—

A colter comprising a stem having a shoulder, a blade pivoted to the stem and having an extension disposed to engage the shoulder to hold the blade against pivotal movement in one direction, and a set-screw passed through the shoulder and adapted for adjustment to project to different degrees beyond the shoulder in the path of movement of the extension of the blade for contact thereby.

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

HUGH T. HUGHES.

Witnesses:

A. A. POPE,  
A. H. CROSS.