

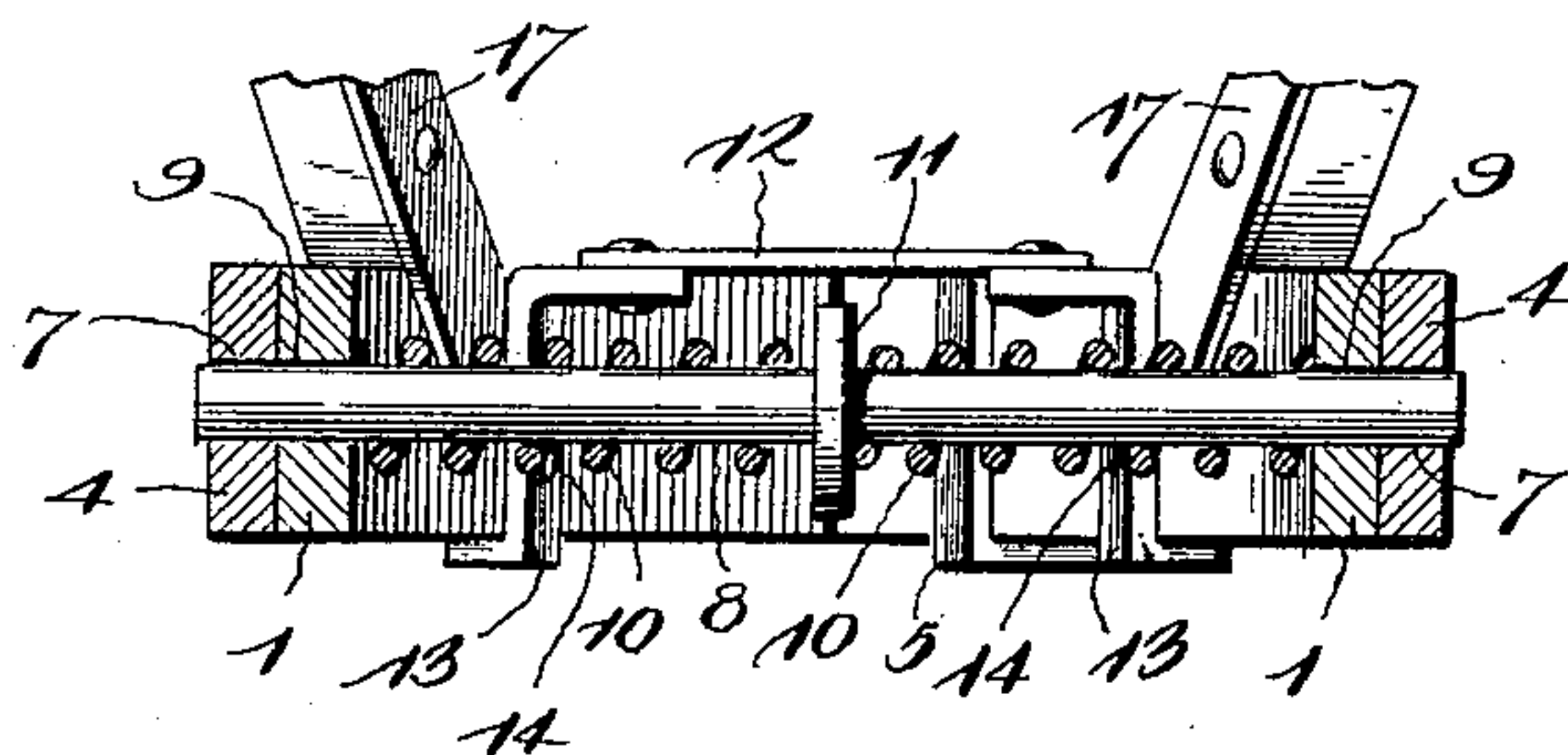
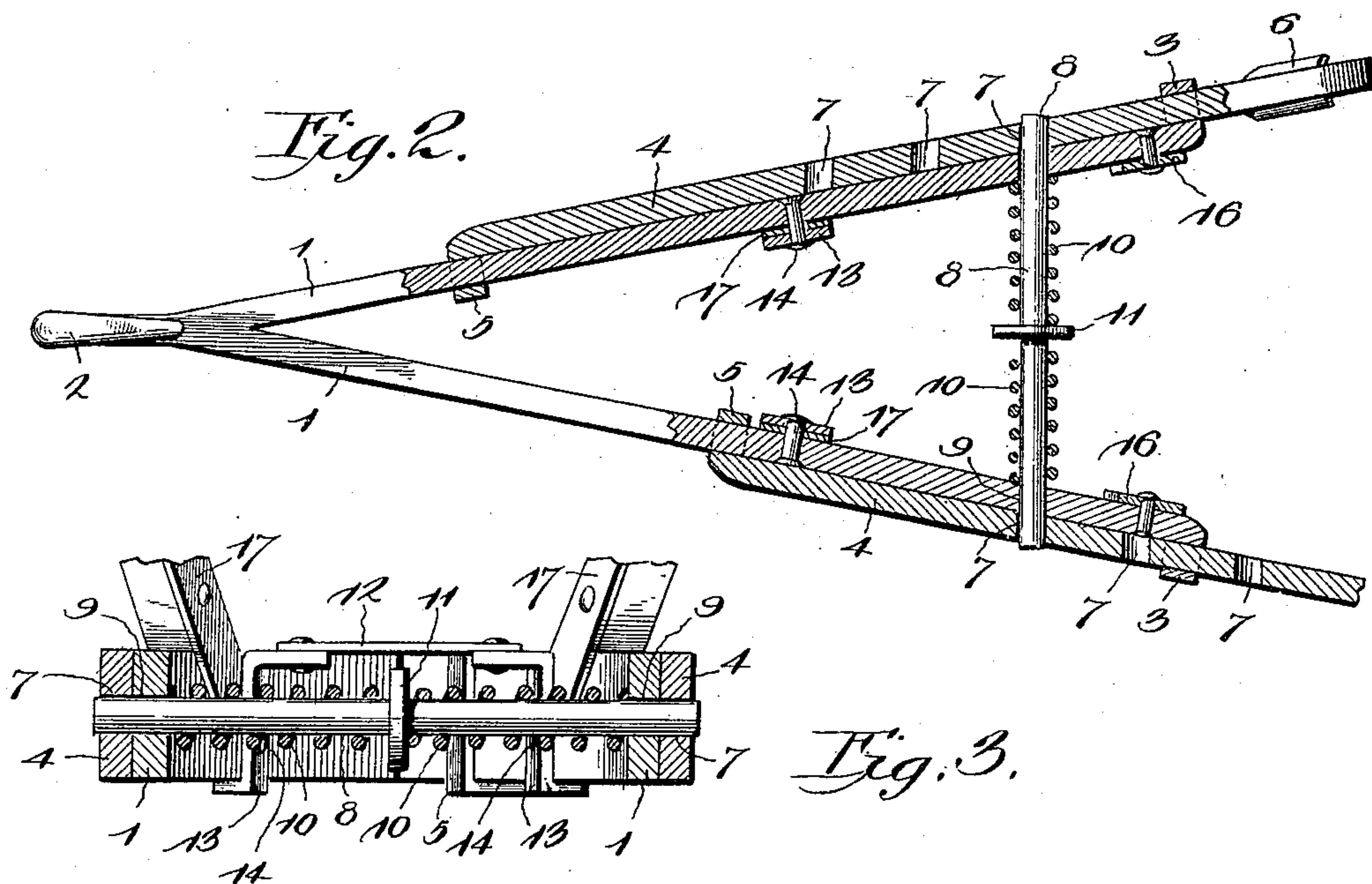
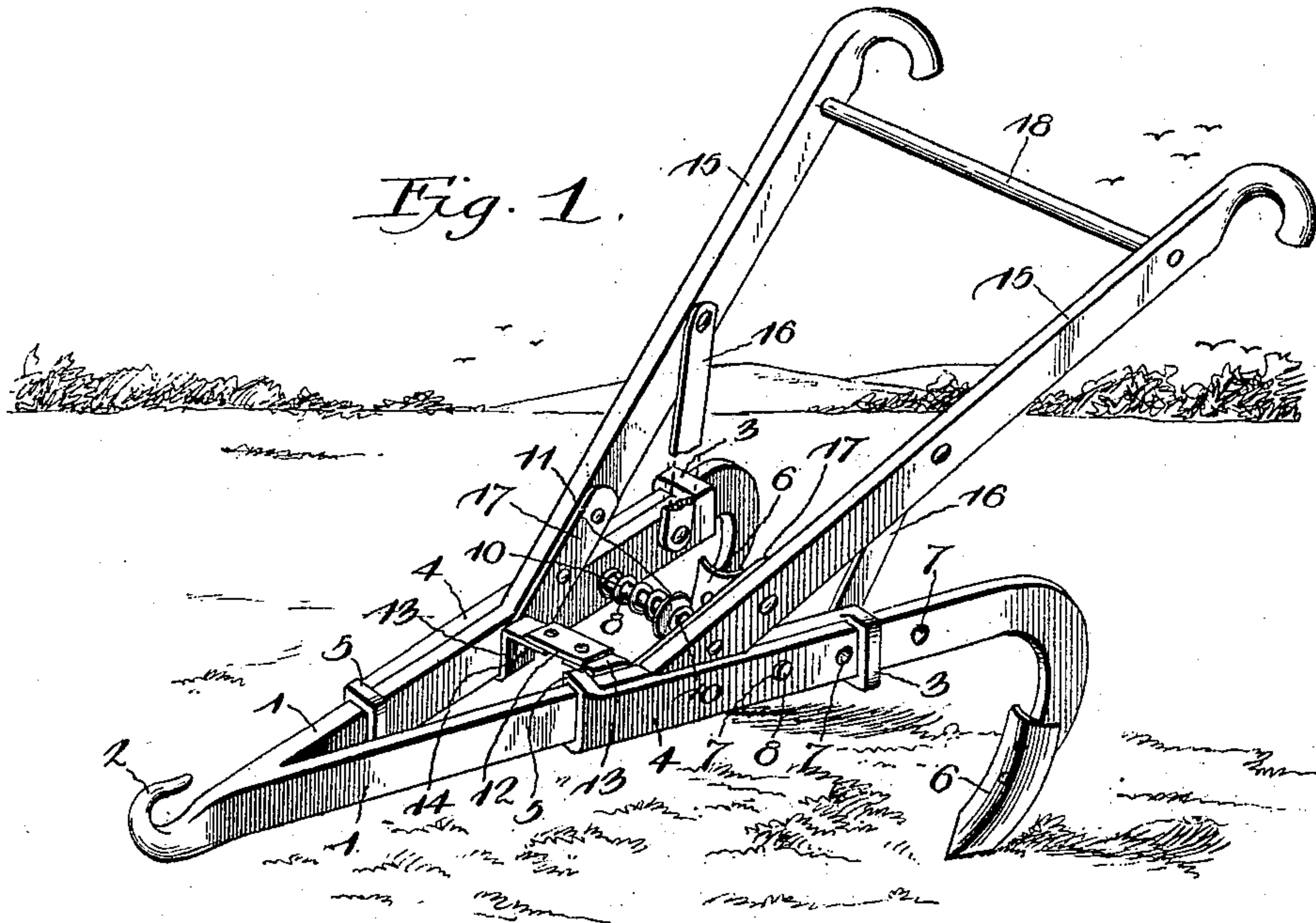
No. 614,573.

Patented Nov. 22, 1898.

J. W. NEAL.
DOUBLE SHOVEL PLOW.

(Application filed May 31, 1898.)

(No Model.)



Witnesses

H. H. Piley

By *His* Attorneys,

John W. Neal, Inventor.

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

JOHN W. NEAL, OF CIFAX, VIRGINIA.

DOUBLE-SHOVEL PLOW.

SPECIFICATION forming part of Letters Patent No. 614,573, dated November 22, 1898.

Application filed May 31, 1898. Serial No. 682,185. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. NEAL, a citizen of the United States, residing at Cifax, in the county of Bedford and State of Virginia, have invented a new and useful Double-Shovel Plow, of which the following is a specification.

The invention relates to improvements in double-shovel plows.

10 The object of the present invention is to improve the construction of double-shovel plows and to provide a simple and comparatively inexpensive one in which the shovels may be adjusted to bring either in advance of the other
15 and also to vary the distance between them, so that the front shovel in plowing corn or tobacco may be next to the plants, and to enable land on hillsides to be plowed back and forth instead of plowing around the same.

20 The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

25 In the drawings, Figure 1 is a perspective view of a double-shovel plow constructed in accordance with this invention. Fig. 2 is a horizontal sectional view of the front and central portions of the plow. Fig. 3 is a trans-
30 verse sectional view.

Like numerals of reference designate corresponding parts in all the figures of the drawings.

35 1 1 designate a pair of forwardly-converging main plow-beams constructed of metal or other suitable material and provided at their front ends, which are united, with a hook 2 for enabling the draft-animals to be attached to the plow; but any other suitable form of
40 fastening device or clevis may be employed, as will be readily understood. The rear terminals of the main plow-beams 1 are provided with a pair of outwardly-extending vertically-disposed loops 3, which receive and form
45 guides for a pair of supplemental plow-beams 4, and the latter are provided at their front ends with inwardly-extending loops 5, embracing and slidingly connected with the front portions of the main beams 1. By this con-
50 struction the supplemental adjustable plow-beams 4 may be moved backward and forward to bring either one of a pair of shovels

6 in advance of the other and also to vary the distance between them. The rear portions of the adjustable plow-beams are curved
55 downward, as shown, and have the shovels 6 secured to them.

The supplemental or adjustable plow-beams, which are provided at intervals with perforations 7, are secured at the desired ad-
60 justment by a transverse bolt or pin 8, extending across the space between the main plow-beams and passing through perforations 9 of the same. The ends of the transverse bolt or pin project beyond the main plow-
65 beams and engage perforations of the adjustable plow-beams, and the said pin or bolt is held against accidental movement by means of a pair of coiled springs 10, disposed on it
70 and interposed between a central collar or flange and the inner faces of the beams 1. The collar or flange 11, which forms a stop for the inner ends of the coiled springs, is adapted to be readily grasped by the operator when
75 it is desired to reciprocate the bolt or pin to adjust the shovels.

The main plow-beams 1 are supported by a transverse brace 12, consisting of a straight central section and a pair of end sections 13, composed of vertical portions and upper and
80 lower horizontal arms. The vertical portions are secured by fastening devices 14 to the beams 1, the upper arms are riveted or otherwise secured to the central section, and the lower arms, which are shorter than the upper
85 ones, engage the lower edges of the beams 1.

The plow is provided with a pair of handles 15, disposed at an inclination and supported by braces 16, the lower ends of the handles being secured to the beams 1 by plates 17,
90 having their lower terminals interposed between the vertical portions of the sections 13 of the brace 12 and the beams 1 and perforated for the reception of the fastening devices 14. The braces 16, which are located
95 at the rear ends of the plow-beams 1, are secured to the inner faces of the same and to the inner faces of the handles, which are connected by a transverse bar 18. The rear portions of the handle-bars are shaped into han-
100 dles of the ordinary form.

The invention has the following advantages: The adjustable plow-beams, which carry the shovels, are slidingly mounted on

the main plow-beams, which diverge rearwardly, and by such adjustment either shovel may be arranged in advance of the other, and the distance between the shovels may be varied to suit the width of the rows to be cultivated. The shovels by being adjusted in this manner enable land on the sides of hills to be plowed back and forth instead of plowing around them, and in plowing tobacco and corn the front shovel may always be arranged next to the plants. The shovels can also be arranged opposite each other when desired.

Changes in the form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

What I claim is—

1. In a device of the class described, the combination of a pair of main plow-beams arranged at an angle to each other and diverging rearwardly, a pair of adjustable plow-beams carrying shovels and slidingly mounted on the main plow-beams and adapted to be moved longitudinally thereof to arrange either shovel in advance of the other and to vary the distance between them, and means for securing the adjustable plow-beams at the desired adjustment, substantially as described.

2. In a device of the class described, the combination of a pair of main plow-beams, a pair of adjustable plow-beams slidingly mounted on the main plow-beams and adapted to be moved longitudinally thereof to arrange either of a pair of shovels in advance of the other, and a transverse pin or bolt extending entirely across the plow, passing through one set of plow-beams and engaging the other,

whereby the movable plow-beams are secured at the desired adjustment, substantially as described.

3. In a device of the class described, the combination of a pair of main plow-beams having perforations, a pair of adjustable plow-beams slidingly connected with the main plow-beams and provided at intervals with perforations, a transverse pin or bolt extending entirely across the plow, passing through the perforations of the main plow-beam and engaging perforations of the adjustable plow-beam, substantially as described.

4. In a device of the class described, the combination of a pair of main plow-beams provided with perforations, a pair of adjustable plow-beams slidingly mounted on the main plow-beams and having perforations, a transverse pin or bolt engaging perforations of the main plow-beams and the adjustable plow-beams and securing the latter at the desired adjustment, and the coiled springs disposed on the transverse pin or bolt and connected with the latter at a point between the ends thereof, said springs having their outer ends bearing against the adjacent plow-beams and retaining the pin or bolt in engagement with the same, the pin or bolt being adapted to be reciprocated in either direction, substantially as and for the purpose described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JOHN W. NEAL.

Witnesses:

HENRY THOMSON,
FRED LUPTON.