

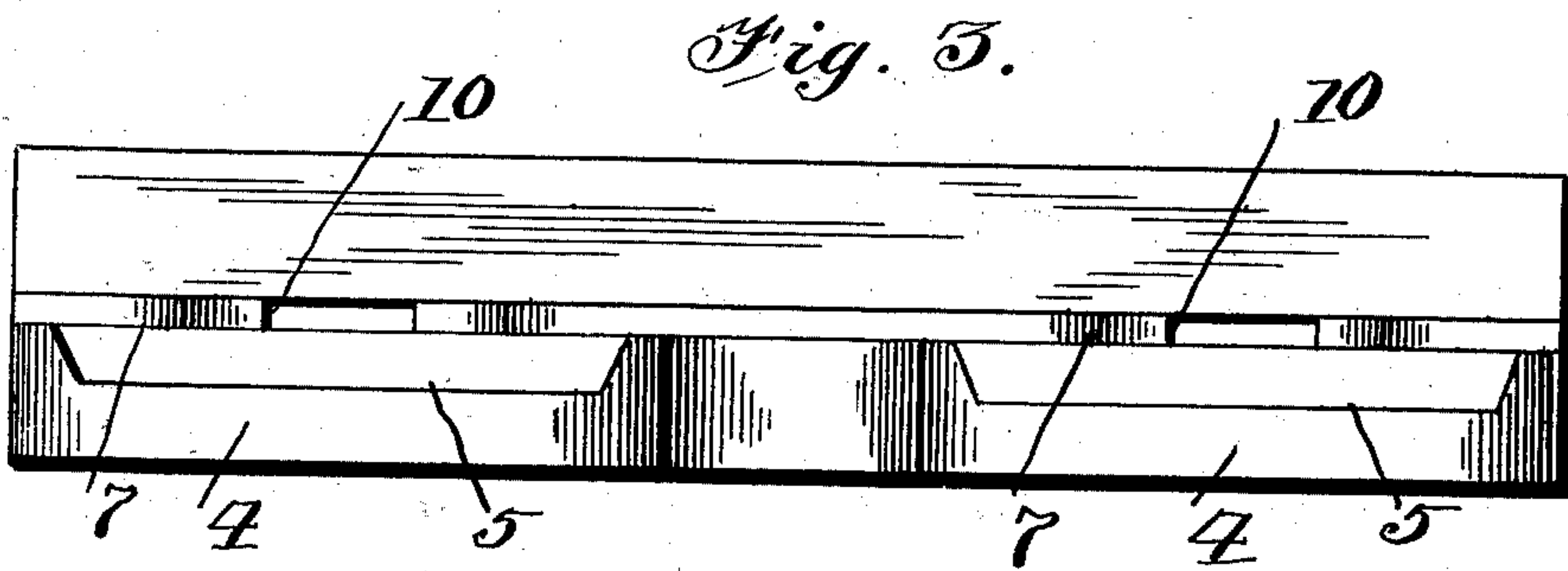
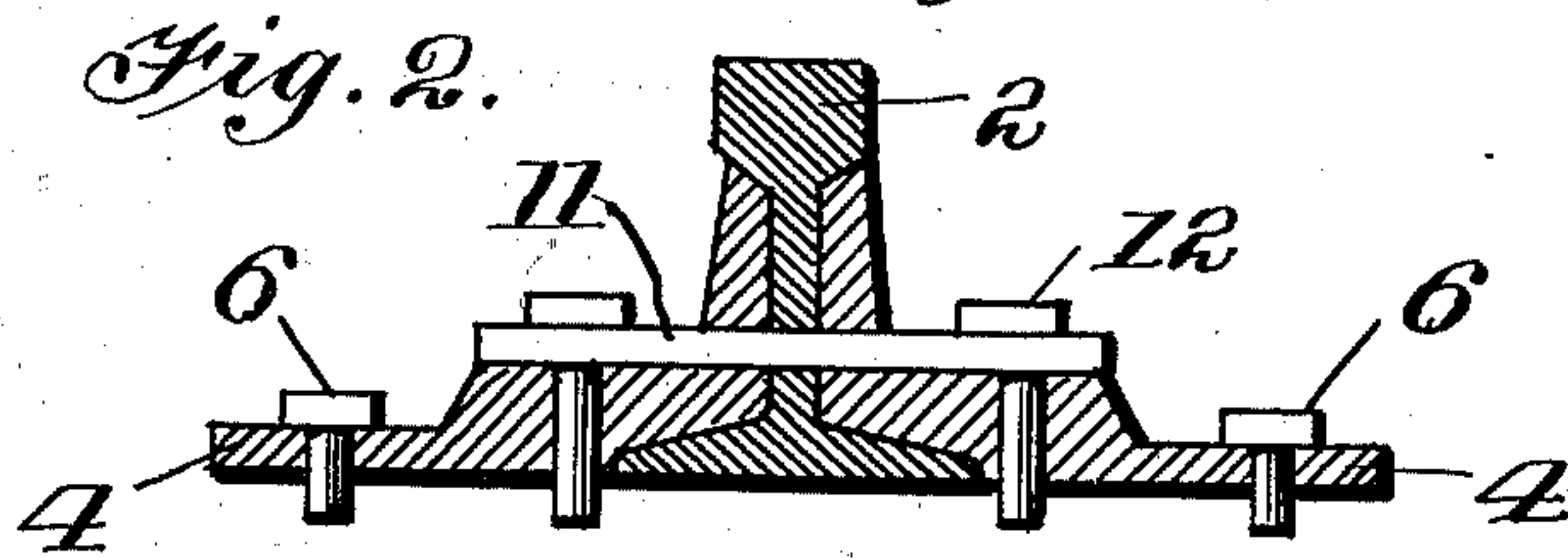
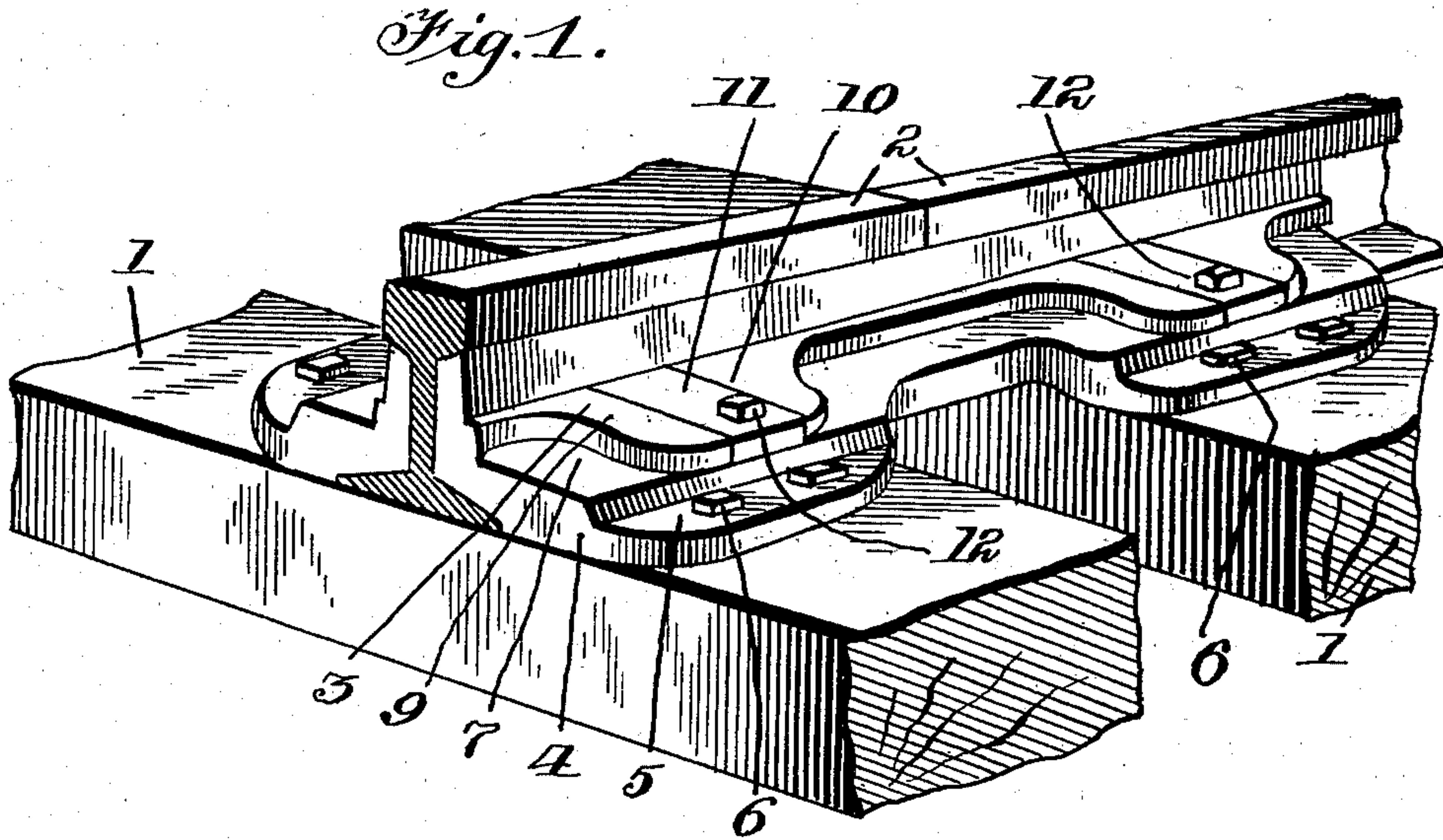
No. 698,606.

Patented Apr. 29, 1902.

C. E. WELLEN.
RAIL JOINT.

(Application filed Jan. 15, 1902.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

CHARLES E. WELLEN, OF MEYERSDALE, PENNSYLVANIA.

RAIL-JOINT.

SPECIFICATION forming part of Letters Patent No. 698,606, dated April 29, 1902.

Application filed January 15, 1902. Serial No. 89,836. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. WELLEN, a citizen of the United States of America, residing at Meyersdale, in the county of Somerset and State of Pennsylvania, have invented certain new and useful Improvements in Rail-Joints, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to certain new and useful improvements in rail-joints, and relates more particularly to that class wherein the use of nuts is entirely dispensed with.

15 The invention has for its object the provision of novel means whereby rails are securely joined together; furthermore, to provide a rail-joint that may be easily removed when desired.

20 The invention further contemplates to provide a rail-joint that will be extremely simple in construction, strong, durable, and comparatively inexpensive to manufacture.

25 With the above and other objects in view the invention consists in the novel combination and arrangement of parts, to be hereinafter more fully described, and specifically pointed out in the claims.

30 In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate like parts throughout the several views, in which—

35 Figure 1 is a perspective view of my improved rail-joint, showing the same applied in position. Fig. 2 is a vertical sectional view thereof. Fig. 3 is a side elevation of one of the fish-plates comprising the joint with the securing-plates removed therefrom.

40 In the drawings the reference-numeral 1 represents the ties, and 2 the rails. The reference-numeral 3 represents a fish-plate carrying a base portion 4, said base portion carrying outwardly-extending flanges 5, having
45 openings formed therein to receive bolts 6 or other suitable fastening means securing said flanges to the cross-ties. The reference-numeral 7 represents the flat top of the base portion 4, upon which are formed flanges 9, form-

ing a guideway 10 to receive the securing-plates 11, said plates extending through the fish-plates, web of the rail, and into the guideway formed on the opposite fish-plate. The securing-plates 11 are secured by bolts 12 or other suitable fastening means extending
55 downwardly through the base 4 into the cross-ties 1. In order to remove my improved rail-joint, the bolts 12 are disengaged and the securing-plates may then be removed. One of the fish-plates may then be removed, thus al-
60 lowing the new rail to be placed in position.

The many advantages obtained by the use of my improved device will be readily apparent from the foregoing description, taken in connection with the accompanying draw-
65 ings.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

70 Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a rail-joint, the combination with the rails, fish-plates carrying a base portion and outwardly-extending flanges having guide-
75 ways formed therein, securing-plates extending through said guideways and rails, and means whereby said fish-plates and securing-plates are secured to the cross-ties, substantially as described.

2. In a rail-joint, the combination with the rails, fish-plates carrying outwardly-extending base portion, an outwardly-extending flange secured to said base portion, guide-
85 ways formed in said base portion, securing-plates extending through said guides and through the webs of the rails, means to secure said flanges to the ties, and means to secure said securing-plates to the base and ties, all parts being arranged and operating sub-
90 stantially as described.

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

CHAS. E. WELLEN.

Witnesses:

A. W. MALCOLM,
T. NEVIN HAY.