

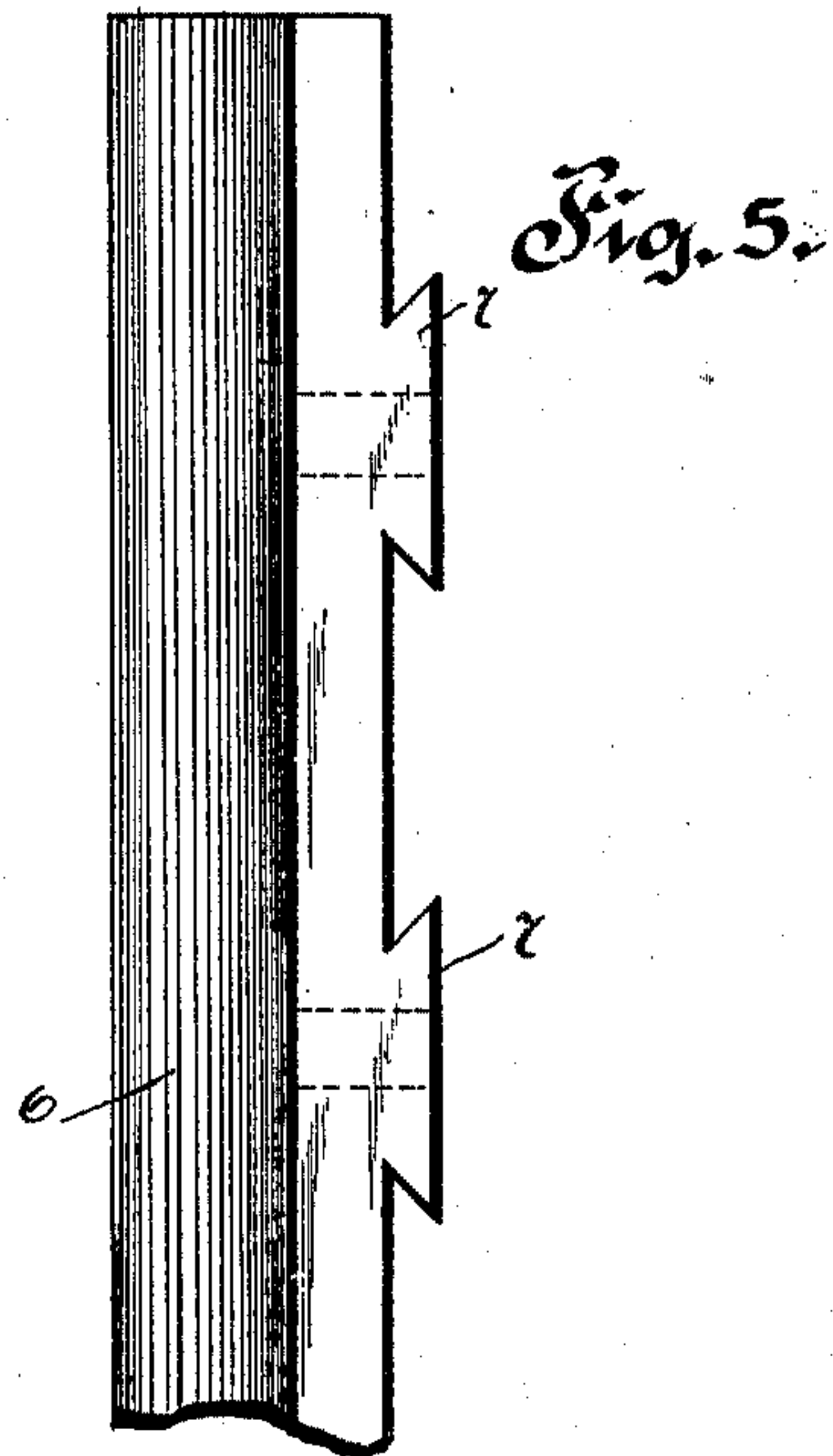
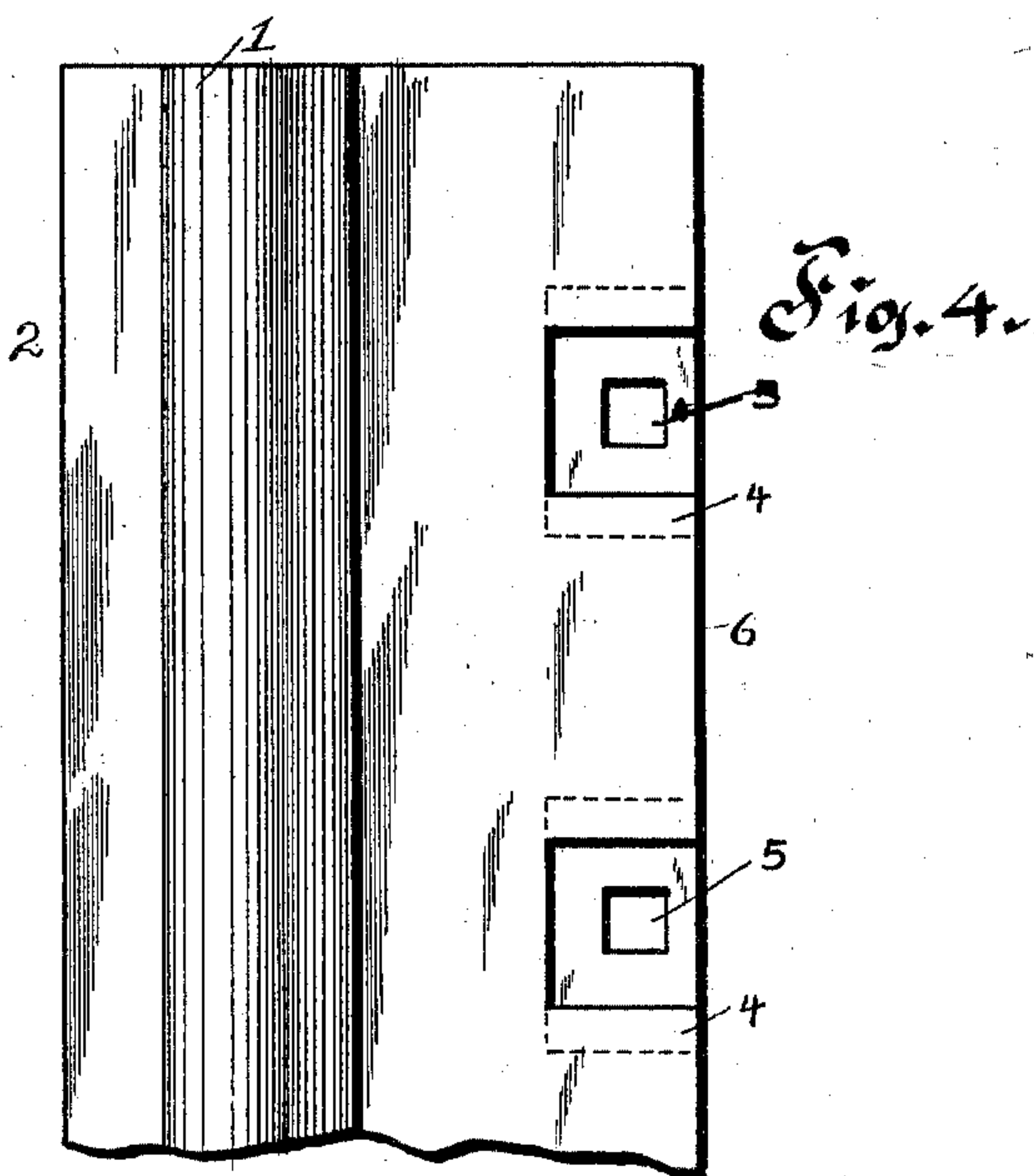
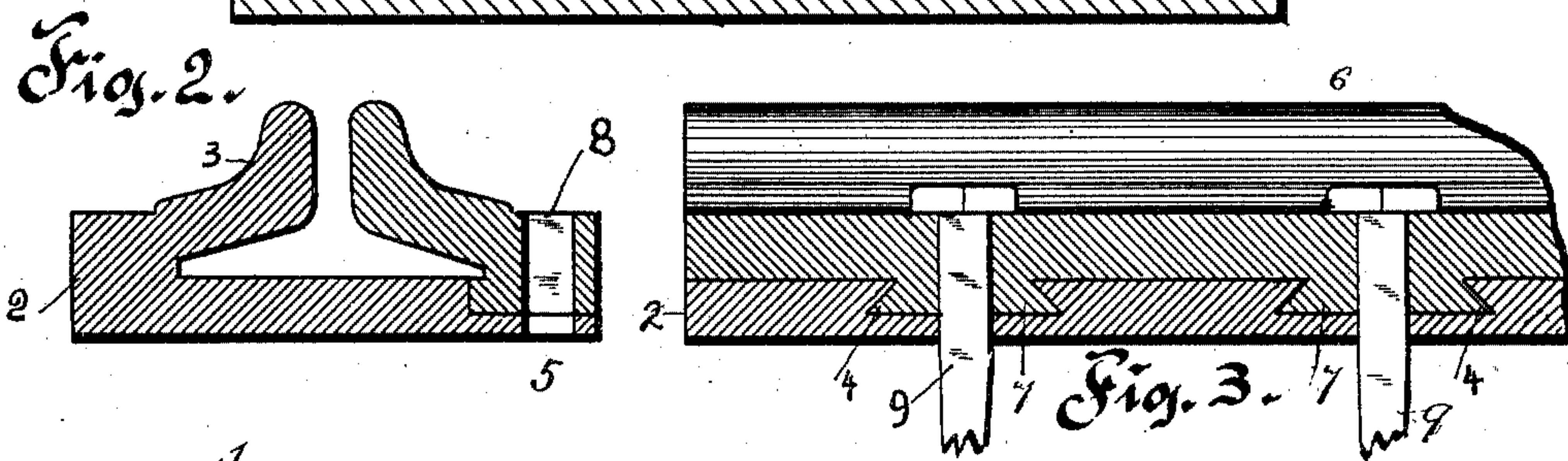
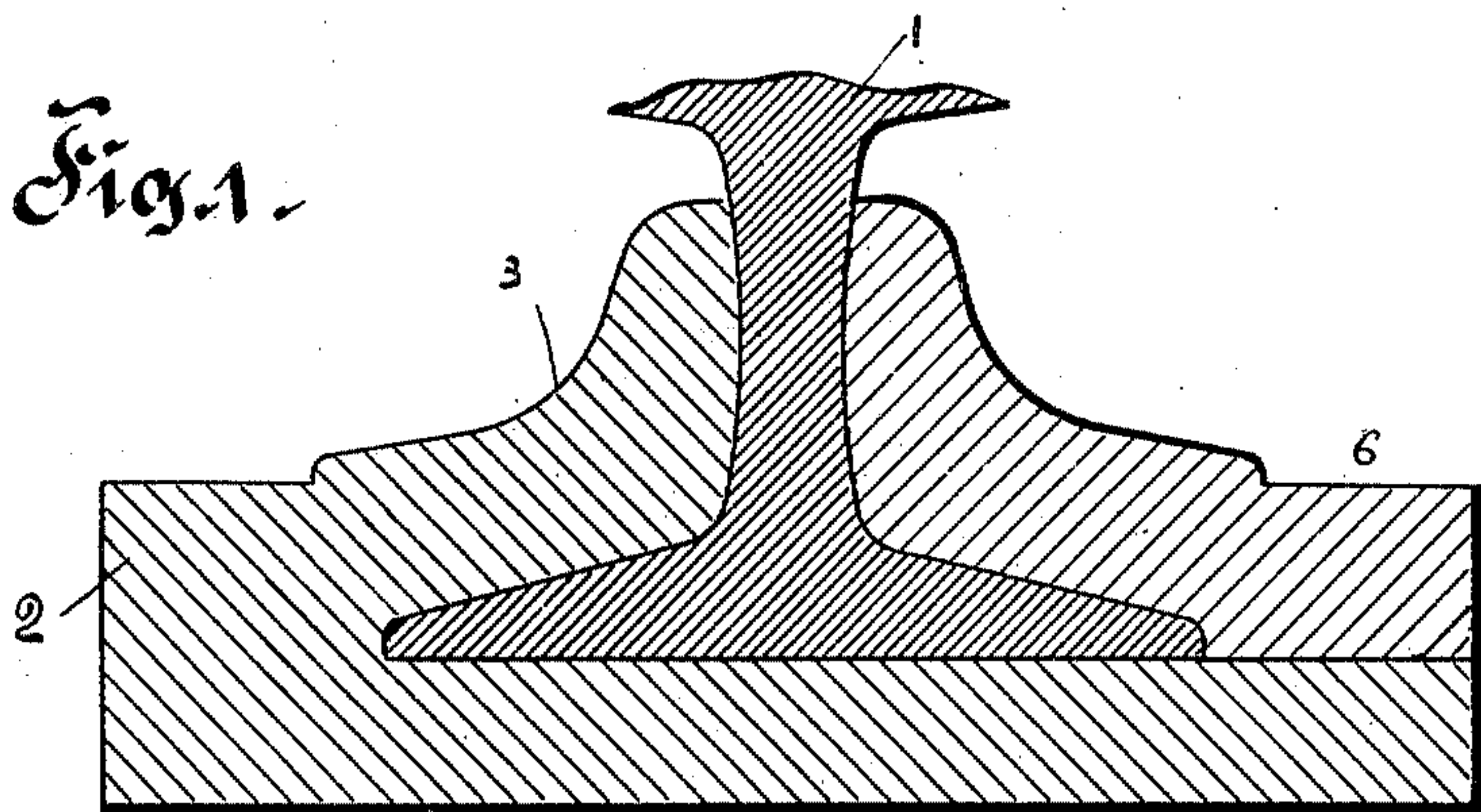
No. 760,259.

PATENTED MAY 17, 1904.

G. SCHMIDT.
RAIL JOINT.

APPLICATION FILED MAR. 16, 1904.

NO MODEL.



Witnesses:
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UNITED STATES PATENT OFFICE.

GUSTAV SCHMIDT, OF NORTH BRADDOCK, PENNSYLVANIA.

RAIL-JOINT.

SPECIFICATION forming part of Letters Patent No. 760,259, dated May 17, 1904.

Application filed March 16, 1904. Serial No. 198,441. (No model.)

To all whom it may concern:

Be it known that I, GUSTAV SCHMIDT, a citizen of the United States of America, residing at North Braddock, in the county of Allegheny 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 nuts and bolts are entirely dispensed with.

15 The invention has for its object the provision of novel means whereby two sections of rails may be effectually joined together and easily removed when desired; furthermore, to provide a joint that will permit the expansion and contraction of the rails.

20 My invention still further aims to provide a joint that will be extremely simple in construction, strong, durable, comparatively inexpensive to manufacture, and highly efficient in its use.

25 With the above and other objects in view the invention consists in the novel construction, 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 application, and wherein like numerals of reference indicate like parts throughout the several views, in which—

35 Figure 1 is a vertical sectional view of my improved rail-joint, showing the same secured to the base of a rail. Fig. 2 is a vertical sectional view showing the rail removed from the joint. Fig. 3 is a longitudinal sectional view of the same. Fig. 4 is a top plan view of the rail-joint with the fish-plate removed therefrom. Fig. 5 is a side elevation of the removable fish-plate.

45 In the drawings, the reference-numeral 1 represents the rail, and the chair is represented by reference-numeral 2, said chair carrying an integral fish-plate 3. This chair has also formed therein dovetailed grooves 4, and

openings 5 are formed through the base of the chair and communicate with the dovetail 50 grooves 4. Removable fish-plates 6, carrying dovetails 7, which are adapted to be seated in the dovetail grooves 4, have also formed therein corresponding openings 8 for the reception of spikes 9 or other suitable fastening means 55 which extend through the openings 8 and 5 into the cross-ties of the road-bed.

The operation of my improved rail-joint is as follows: The rails are secured in position in the chair, and the removable fish-plate is 60 then applied and secured in position, as hereinbefore stated. When it is desired to remove the joint, the fastening means is withdrawn, which will permit the removal of the fish-plate, as will be readily understood from 65 the foregoing description taken in connection with the drawings.

It will be obvious 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 of a chair 75 carrying an integral fish-plate, said chair having formed therein dovetail grooves, a removable fish-plate carrying dovetails seated in said grooves, and means to retain said fish-plate in the locked position. 80

2. In a rail-joint, the combination of a chair carrying an integral fish-plate, said chair having dovetail grooves formed therein, a removable fish-plate carrying dovetails, said chair and said removable fish-plate having 85 corresponding openings formed therein, and fastening means extending through said openings, substantially as described and for the purpose set forth.

In testimony whereof I affix my signature in 90 the presence of two witnesses.

GUSTAV SCHMIDT.

Witnesses:

E. E. POTTER,
K. H. BUTLER.