

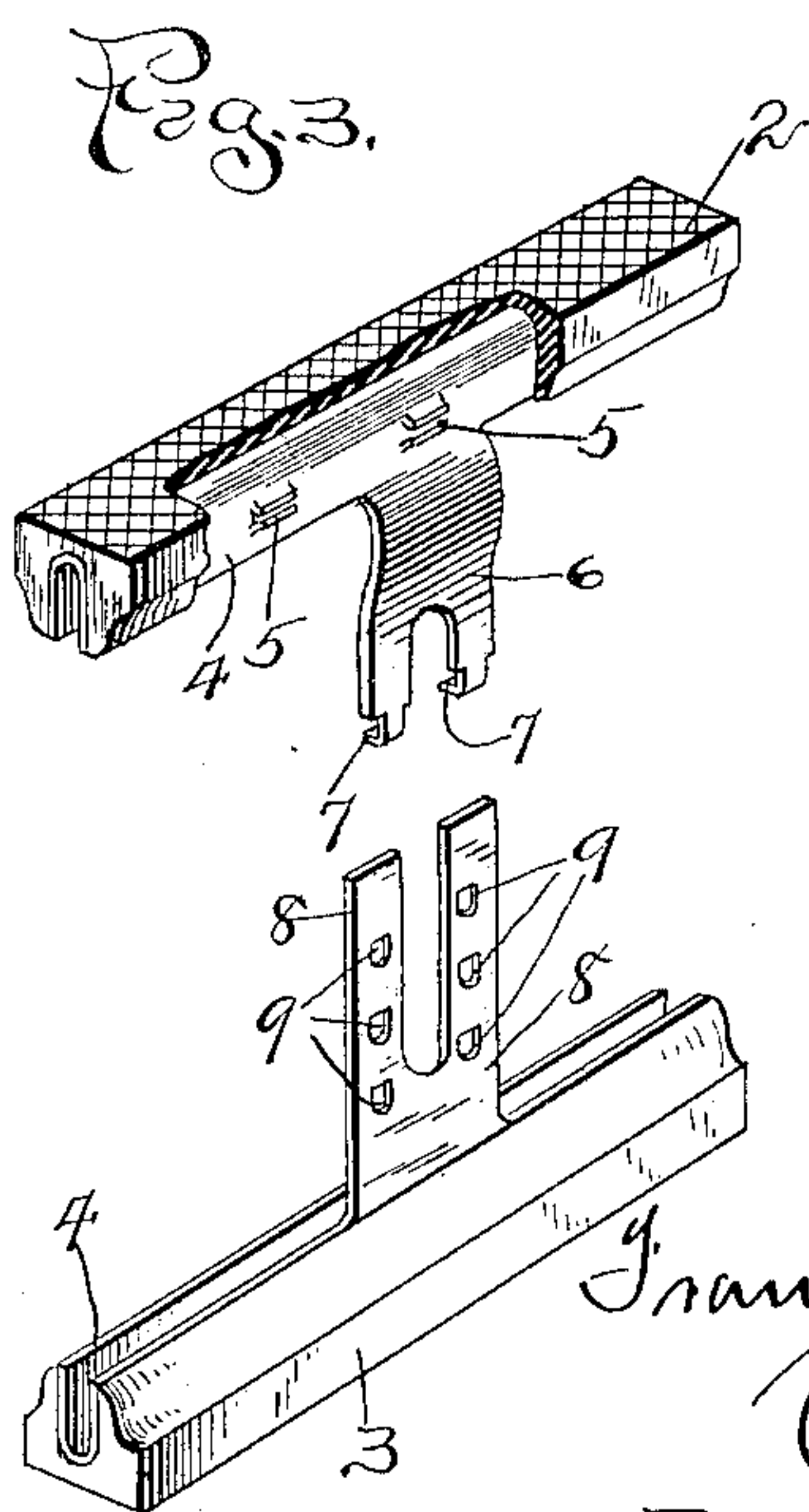
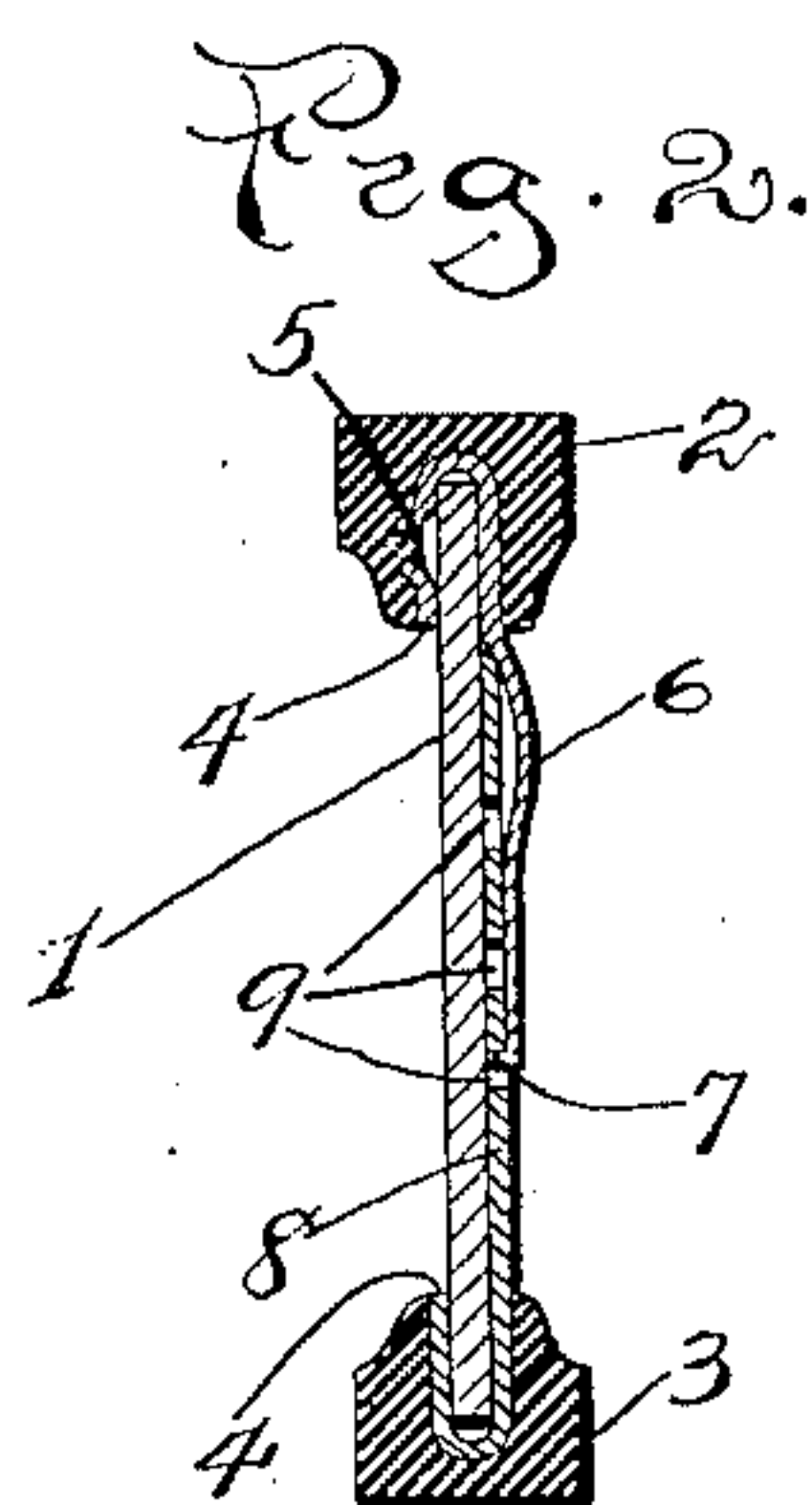
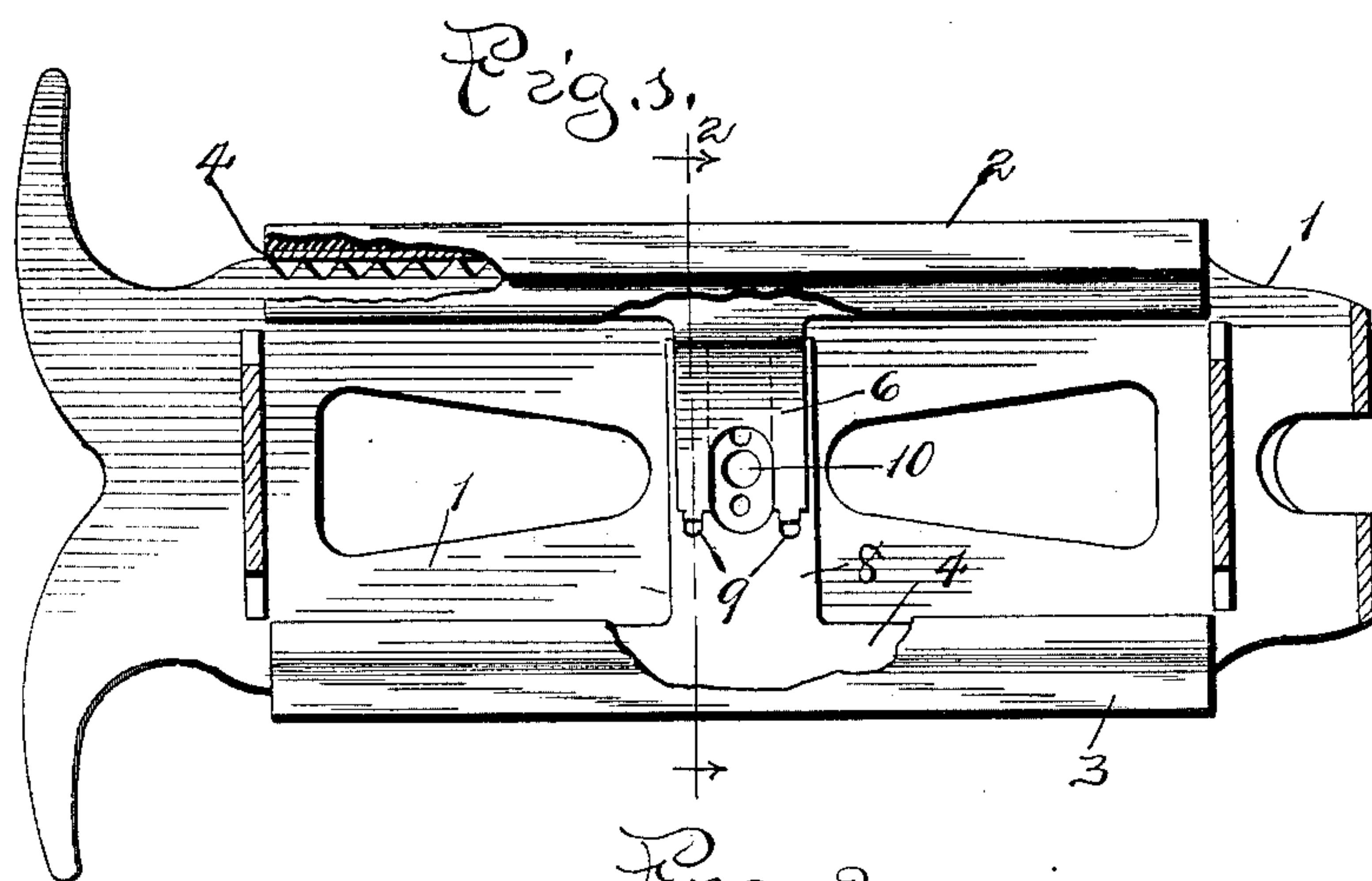
No. 657,275.

Patented Sept. 4, 1900.

F. T. ROBINSON.
PEDAL RUBBER.

(Application filed July 24, 1899.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

FRANK T. ROBINSON, OF CHICAGO, ILLINOIS, ASSIGNOR TO LOUIS J. KRELLER, OF SAME PLACE.

PEDAL-RUBBER.

SPECIFICATION forming part of Letters Patent No. 657,275, dated September 4, 1900.

Application filed July 24, 1899. Serial No. 724,895. (No model.)

To all whom it may concern:

Be it known that I, FRANK T. ROBINSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Pedal-Rubbers, of which the following is a full, clear, and exact specification.

My invention relates to pedal-rubbers for velocipedes and other foot-power machinery; and the improvements have more especial reference to the means whereby the same may be attached to the pedal.

The primary object of my invention is to provide improved means for detachably securing the pedal-rubber to the pedal without the aid of screws or rivets.

Another object of my invention is to provide two separable pedal-rubbers with interlocking devices for locking them to the pedal, a further object being to have the locking device of such a character that the rubbers shall be capable of attachment to pedals of various sizes.

With these ends in view, my invention consists in certain features of novelty in the construction, combination, and arrangement of parts by which the said objects and certain other objects hereinafter appearing are attained, all as fully described with reference to the accompanying drawings and more particularly pointed out in the claims.

In the said drawings, Figure 1 is a longitudinal sectional view of a pedal, showing my improved pedal-rubbers in side elevation and attached thereto. Fig. 2 is a cross-section thereof, taken on the line 2 2, Fig. 1. Fig. 3 is a detail perspective view of the two pedal-rubbers detached.

1 represents the side member of the pedal-frame, which is here shown as a flat bar or strip, the same being the usual construction, and 2 3 represent the pedal-rubbers, each provided with a groove or socket U-shaped in cross-section and fitted over the edge of the pedal frame member 1 in the usual or any suitable manner, the same being a construction of common form. The U-shaped socket or slit in the pedal-rubbers 2 3 for the reception of the edges of the frame 1 is preferably

formed by a strip or sheet of metal or other suitable material folded back upon itself, but with the folds a slight distance apart, so as to form what might be termed a "clip" 4, as illustrated in Fig. 2, and upon this clip 4 is cast the rubber portion 2 3, the clip 4 being on each side provided with burs or tongues 5, struck up therefrom to enable the rubber to better cling thereto. This clip 4 forms an appropriate socket for receiving the edge of the frame member 1 and preventing the pressure of the foot from causing the frame member to cut the rubber. It also holds the rubber firmly seated on the edge of the frame member.

Formed on or secured to, but preferably made integrally with, the clip 4 of one of the rubbers 2 3 is a tongue or projection 6, provided at its extremity with a lug or hook 7, and the other one of the rubbers is likewise provided with a similar projection or tongue 8, having formed therein a number of perforations or sockets 9. These tongues or projections 6 8 are so arranged and formed that when the two pedal-rubbers are in place on opposite sides of the frame member 1 the tongues will project toward and overlap one another and also lie flat against the side of said frame member in such a manner that the lug 7 of the tongue 6 may engage in either one of the perforations 9 of the tongue 8, and thus lock the pedal-rubbers together and prevent them from being unseated from the edges of the frame member 1, the tongue 6 being formed of elastic steel or other suitable material and bent outwardly, as shown in Fig. 2, so that its lug will automatically spring into the one of the perforations or sockets 9 to which it comes opposite when the two rubbers are firmly seated in place. In order to remove the pedal-rubbers after being thus attached, it is simply necessary to deflect the tongue 6 outwardly until its lug 7 disengages from the socket or perforations 9, whereupon the rubbers may be pulled from the edges of the frame member 1.

The tongues 6 8 may be arranged on either the inner or outer side of the pedal member 1; but for the sake of neatness of appearance it is preferable when putting the rubbers in

place to lay these tongues on the inner side of the frame.

In order that the presence of the tongues 6 8 may not interfere with the attachment of a toe-clip, which is usually attached by means of a screw inserted through a perforation or screw-hole 10 in the frame member, and at the same time I may utilize the presence of such screw for preventing longitudinal shifting of the pedal-rubbers, I bifurcate each of the tongues 6 8, as clearly shown in Fig. 3, so that the screw may pass through the tongues when it is desired to attach the toe-clip. It will thus be seen that the presence of the screw, while serving to limit any longitudinal shifting of the pedal-rubbers, does not interfere with their removal nor with their adjustment with relation to each other, which adjustment is provided for by the duplication of the perforations or sockets 9, enabling the rubbers to be attached to pedals of various sizes. When the tongues 6 8 are thus forked or bifurcated, it is preferable for the sake of strength and uniformity of appearance to provide each of the bifurcations of the tongue 6 with one of the lugs or hooks 7 and each of the bifurcations of the tongue 8 with a series of perforations or sockets 9.

While I have described means for the accommodation of the screw or bolt by which a toe-clip may be attached when desired, it will nevertheless be understood that my invention is not dependent for its perfect operation upon the presence of such screw or any other bolt, rivet, or attaching device except-

ing the attaching device constituted by the interlocking members formed on the tongues 6 8.

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

1. The combination with a pedal of two pedal-rubbers engaging opposite sides of the pedal-blade and each provided with a tongue one of which has support against the pedal-blade and the other of which overlaps the first and is in contact therewith along its length; said tongues being provided with interlocking devices, substantially as set forth.

2. The combination with a pedal-blade having two pedal-rubbers arranged on opposite sides thereof and each having a clip fitting over one edge of the pedal-blade and each of said clips being formed rigidly with a tongue one of which is elastic resting flat against the side of the pedal, the other tongue overlying and in contact with the first along its length and one of said tongues being provided with a hook or lug and the other with a series of perforations or sockets for engaging and holding said hook or lug; whereby the pedal-rubbers will be adjustable to various sizes of pedals and at the same time will be held rigidly on the pedal and prevented from turning off by the pressure of the foot or being knocked off by a blow, substantially as set forth.

FRANK T. ROBINSON.

Witnesses:

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