

No. 725,788.

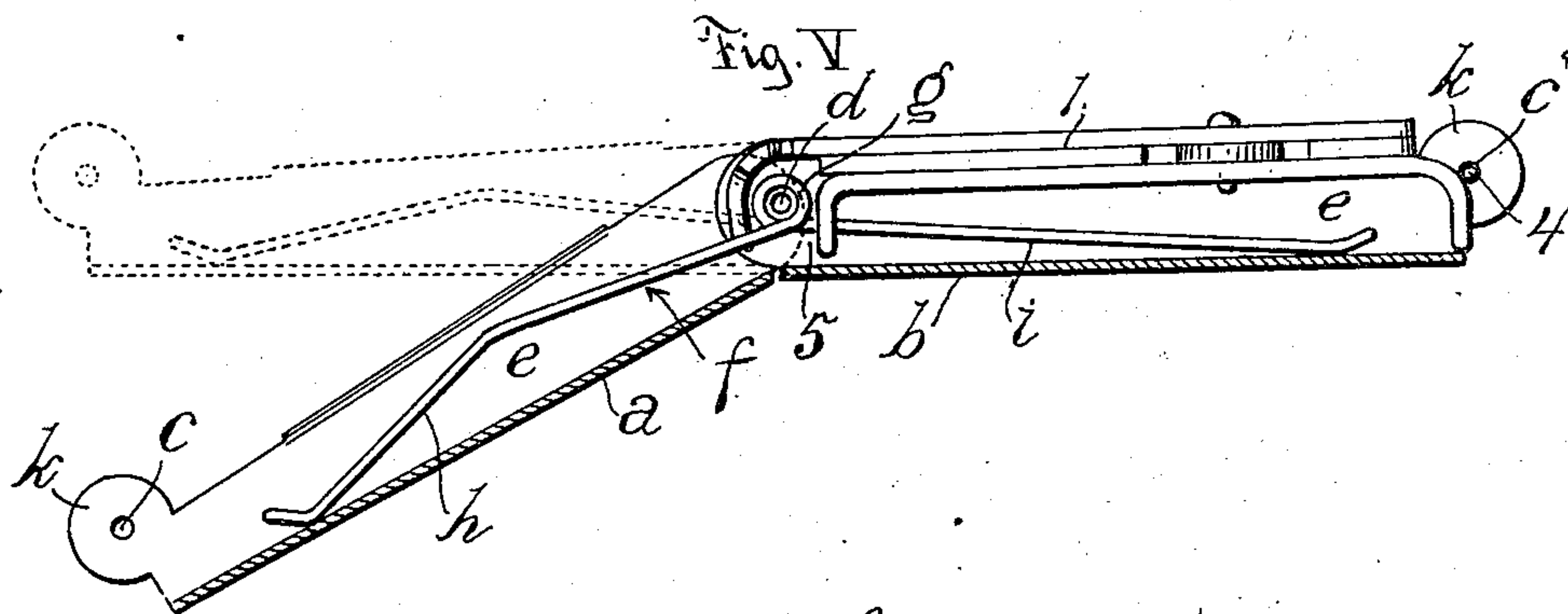
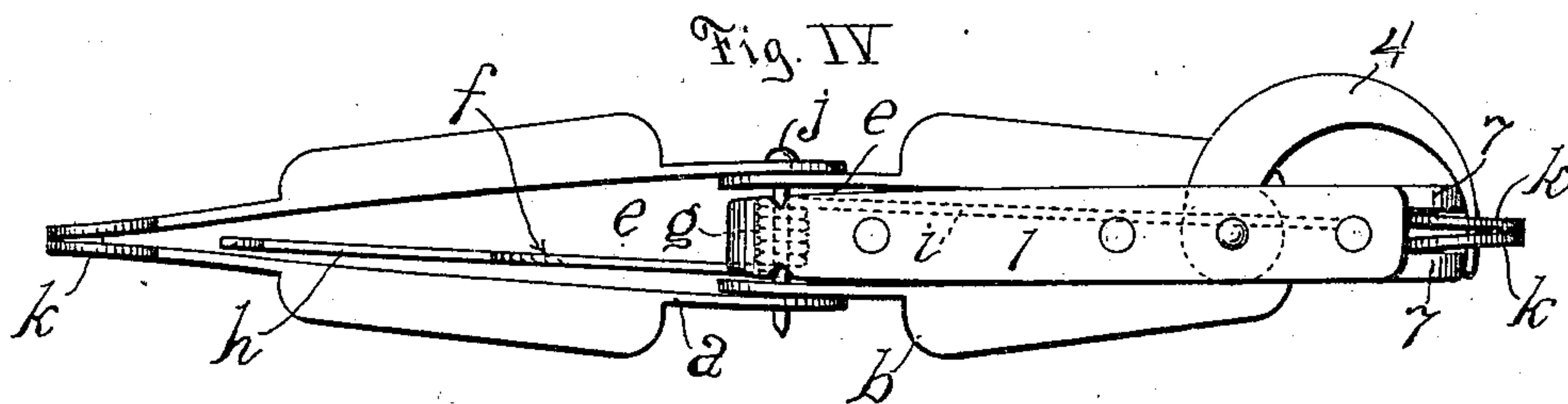
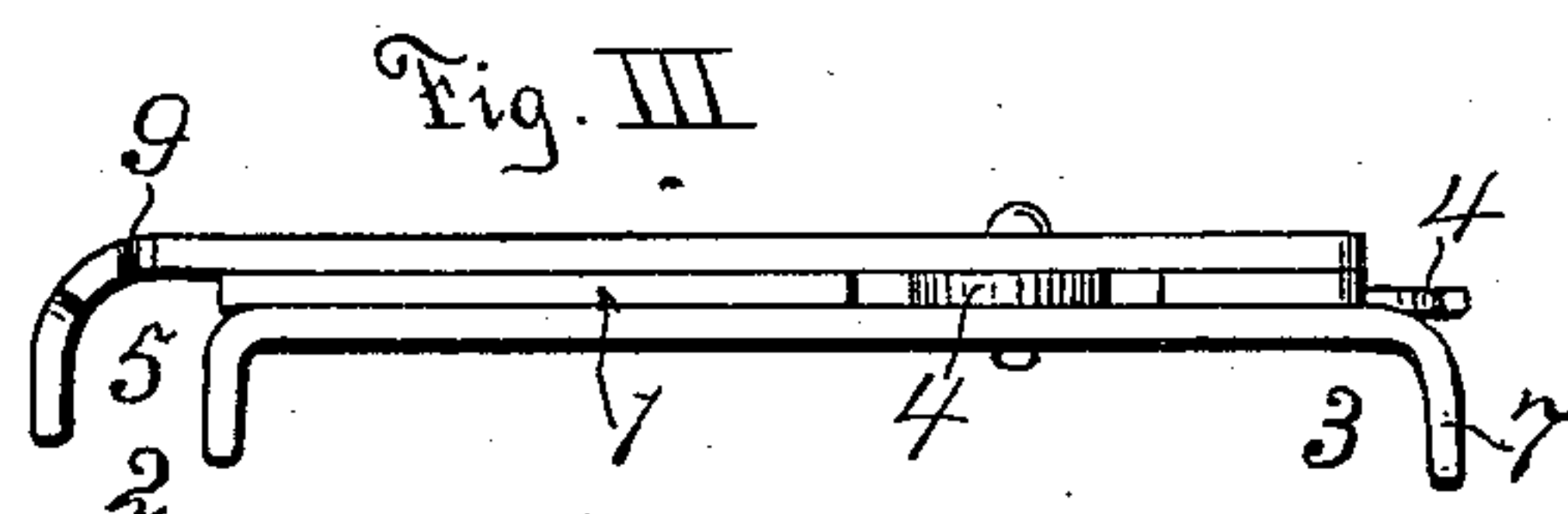
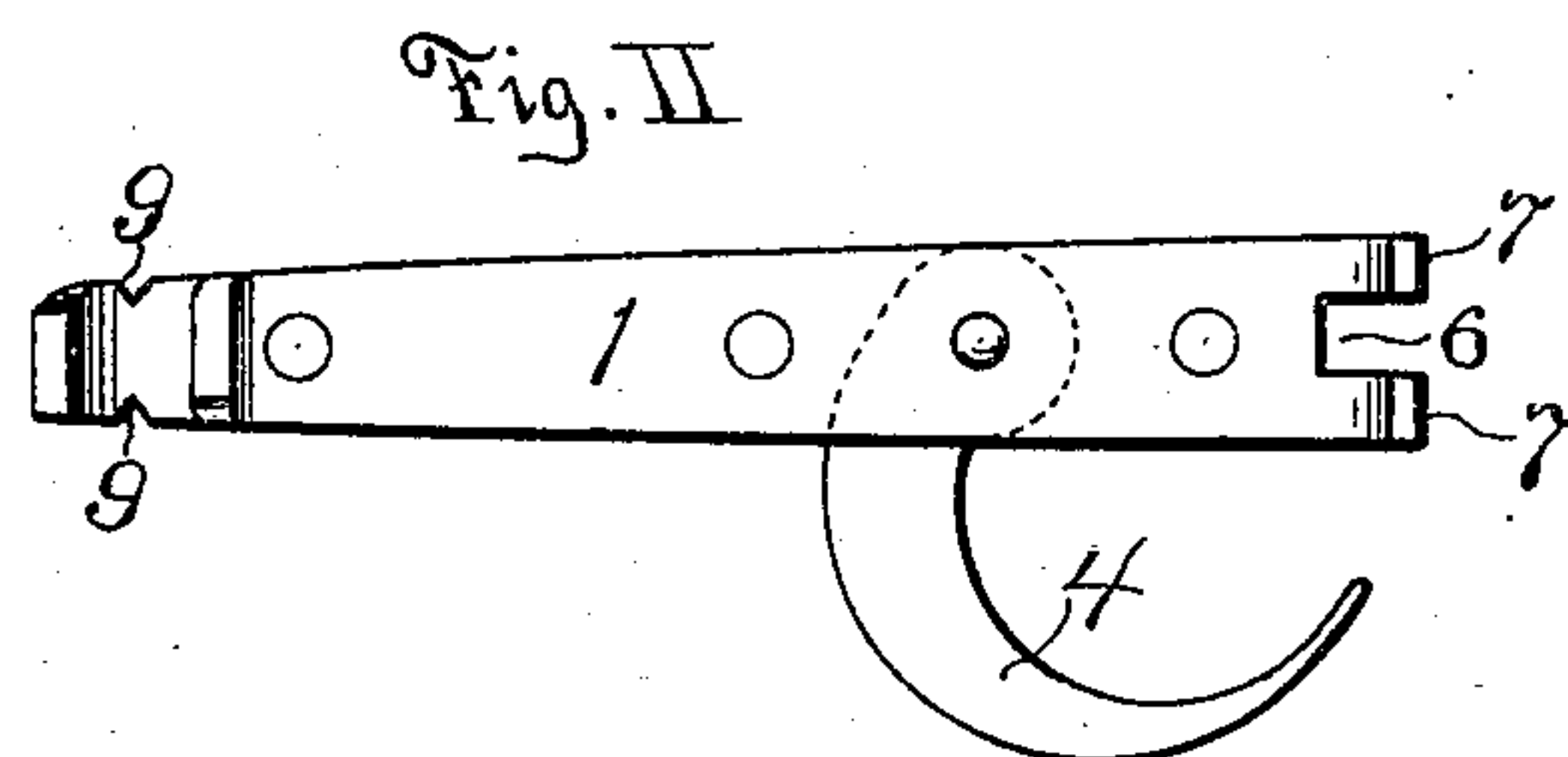
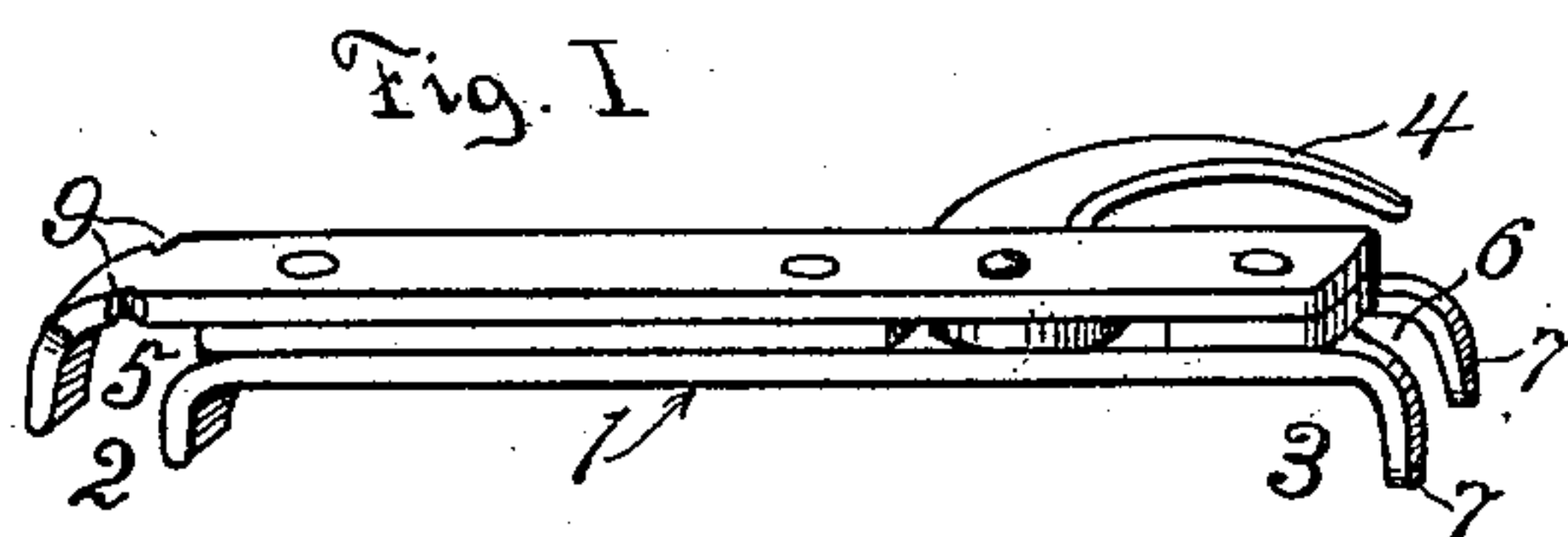
PATENTED APR. 21, 1903.

J. A. SMITHLINE.

DEVICE FOR ASSEMBLING SPRINGS IN JOINTED MEMBERS.

APPLICATION FILED MAR. 18, 1902.

NO MODEL.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN A. SMITHLINE, OF LOS ANGELES, CALIFORNIA.

DEVICE FOR ASSEMBLING SPRINGS IN JOINTED MEMBERS.

SPECIFICATION forming part of Letters Patent No. 725,788, dated April 21, 1903.

Application filed March 18, 1902. Serial No. 98,869. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. SMITHLINE, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented a new and useful Device for Assembling Springs in Jointed Members, of which the following is a specification.

This invention relates to assembling the springs in jointed clasp members which are designed for use for closing the mouths of tobacco-pouches and for other purposes. The springs for said members to which I refer are composed of two limbs and an intermediate spiral coil through which the pivot which pivots the two members together is passed. It is very difficult to assemble said clasp members with the spring and the pivot therefor, and the purpose of this invention is to provide convenient means for putting said clasp members, their spring, and pivot together.

The accompanying drawings illustrate this invention.

Figure I is a perspective view of this device ready for use. Fig. II is a plan view of the same from the under side. Fig. III is a side elevation of the same. Fig. IV is a view of the device on a clasp member, the parts of which have been assembled. Fig. V is a view of the device in position, together with a spring and member ready to be brought into position for receiving the pivot in the manner shown in Fig. IV.

The jointed clasp members referred to are composed of two members *a b*, which are provided at their ends with perforations *c* and *d*, respectively, to receive the pivots which hinge the several members of the clasp (not shown in full) together. Said members *a* and *b* are respectively furnished with channels *e*, in which the spring *f* is to be mounted to normally hold the members extended in a straight line or in some other appropriate position relative to each other.

g designates the intermediate coil, and *h i* the opposite limbs, of the spring.

j designates the pivot, which pivots the members *a* and *b* together when appropriately assembled.

The device for assembling the clasp members just described comprises a member or body 1, a portion 2 of which is adapted to en-

gage the intermediate coil of the spring, and another portion is adapted to engage one of the members to be pivoted together and may be provided with a latch or retainer 4 to engage said member. Said body may have at the portion 2 a recess 5, which will fit upon the intermediate coil *g* to hold it firmly in place, and the other portion 3 of the body may be furnished with a recess 6, into which the end *k* of the member to be fastened by the pivot will fit. In Fig. IV it is clearly shown that the end *k* is formed of two thicknesses of metal, being formed of the ends of the opposite walls of the channels *e*, and that members or claws 7 extend on opposite sides and embrace between them the end *k* of the member *b*, and that the latch 4 is inserted through the hole *c*, thus holding one end of the body 1 firmly in position with relation to the member *b*.

To use the device, which may either be applied to the member *b* or *a*, as indicated in Figs. IV and V, the latch being inserted through the pivot-hole *c*, the spring *f* may be brought into the members, as *b*, beneath the body 1 and the coil *g* brought into the recess 5, provided for that purpose. In this stage of the operation the spring *g h i* will be free from tension and will stand in its normal position, (indicated in Fig. V,) and the pivot-holes *d*, through which the pivot *j* is to be inserted, will not coincide with each other. By holding the body 1 in position (shown in Fig. V) the member *a* may be brought up into position, thus bringing the spring under tension and bringing the pivot-holes *d* to coincide with the hole through the coil *g*, whereupon the pivot *j* may be passed through the joint and riveted, if desired, thus completing the jointed clasp member, whereupon the latch 4 may be withdrawn from the pivot-hole *c* and the device removed from the jointed member.

9 designates notches in the body 1 to allow the pivot *j* to be seen during the operation of bringing the pivot into place.

Having described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. A device for assembling springs in jointed members, which comprise a member having at one end a recess to receive an inter-

mediate coil of the spring, and furnished at the other end with an adjustable retainer to engage one of the members which are to be pivoted together.

5 2. A device for assembling springs in jointed members, comprising a body, coil-engaging means, and means adapted to engage and hold one of the members to be pivoted together.

10 3. A device for assembling springs in jointed members which comprises a body, one portion of which is adapted to engage an intermediate coil of a spring, and another portion is adapted to engage one of the members to be pivoted together; and a retainer pivoted to said body and adapted to engage said member to hold it and said body together.

15 4. In a device of the class described, the combination with a body, means in connec-

tion therewith for engaging an intermediate 20 coil of a spring, means adapted to engage one of the members to be pivoted together, and a latch or retainer.

5. In a device of the class described, the combination, with a body provided at one end 25 with a recess, the walls of which are adapted to engage an intermediate coil of a spring and at the other with member, or jaws adapted to engage one of the members to be pivoted together, of a latch pivoted thereon. 30

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, at Los Angeles, California, this 12th day of March, 1902.

JOHN A. SMITHLINE.

Witnesses:

JAMES R. TOWNSEND,
JULIA TOWNSEND.