

No. 708,762.

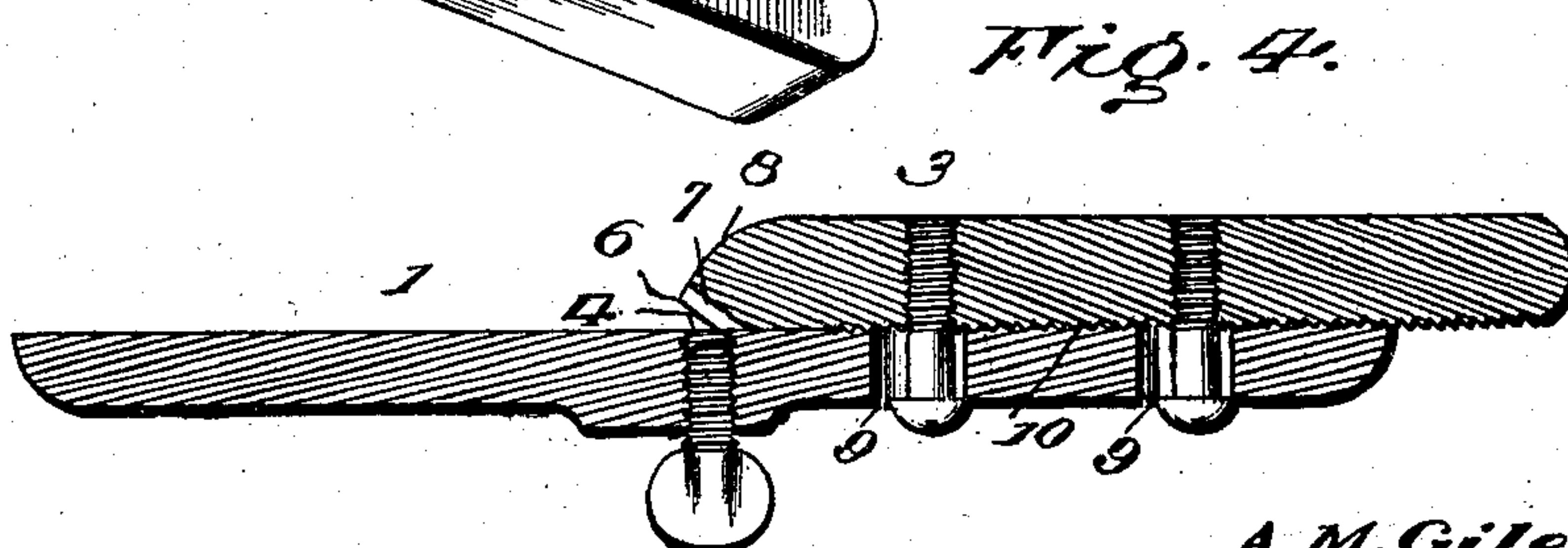
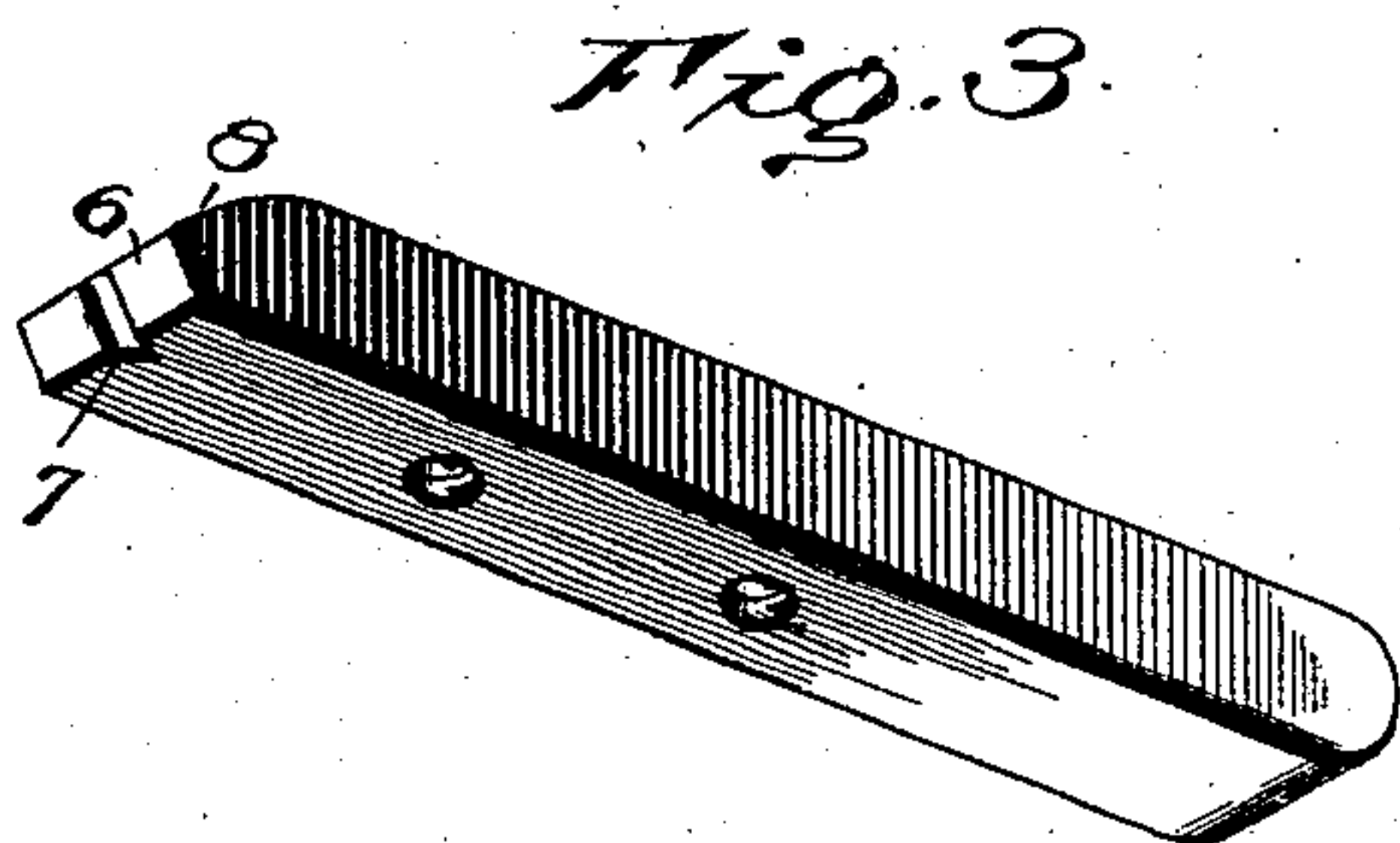
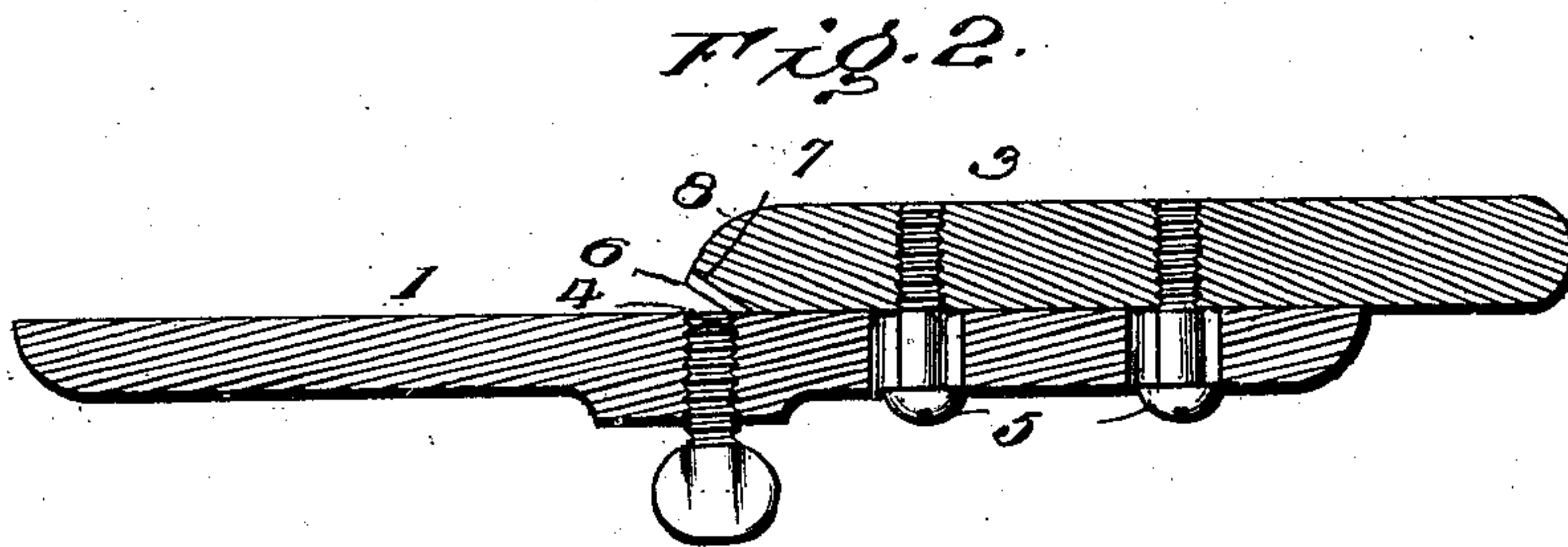
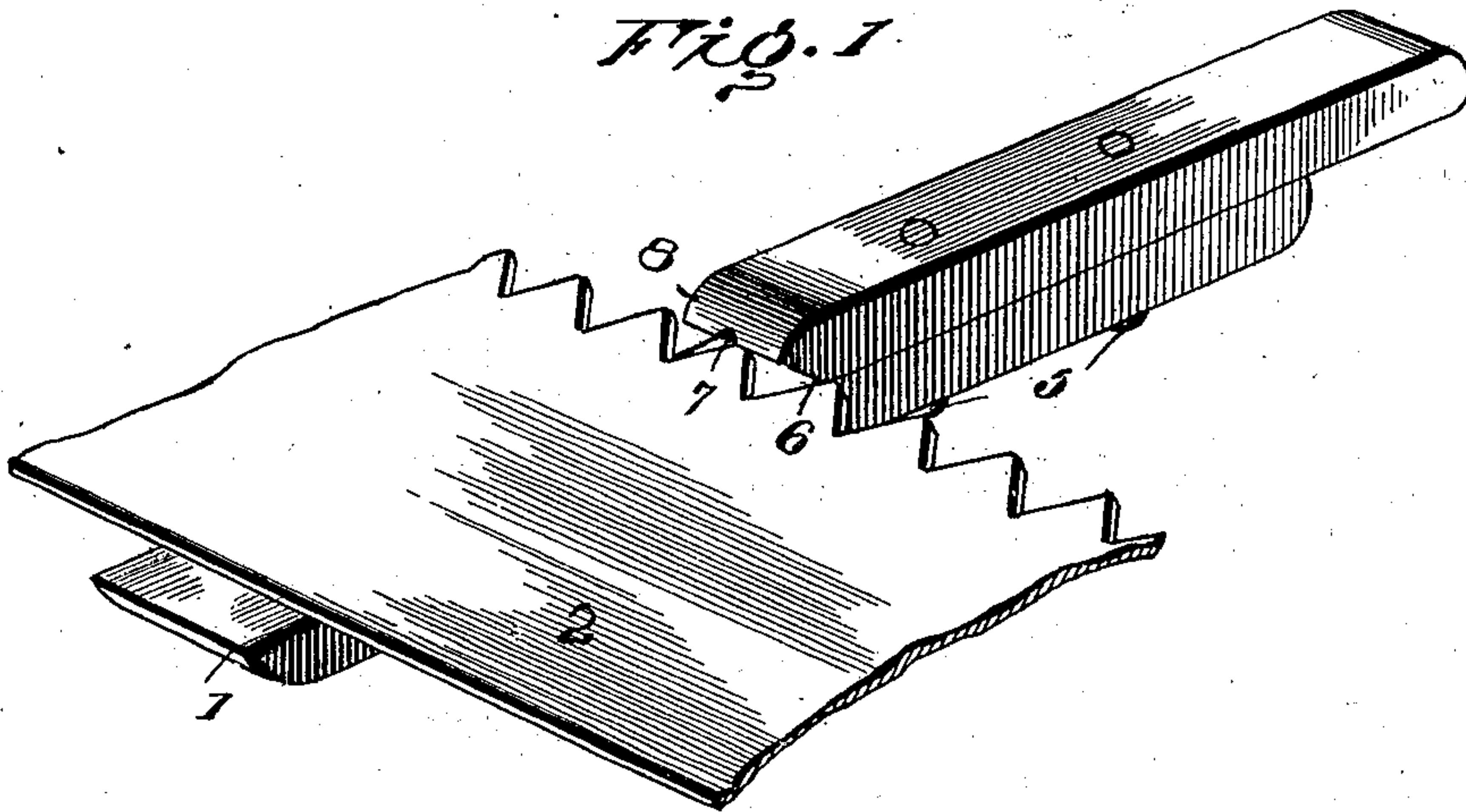
Patented Sept. 9, 1902.

A. M. GILES.

SAW SET.

(Application filed Feb. 24, 1902.)

(No Model.)



Witnesses

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UNITED STATES PATENT OFFICE.

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SAW-SET.

SPECIFICATION forming part of Letters Patent No. 708,762, dated September 9, 1902.

Application filed February 24, 1902. Serial No. 95,416. (No model.)

To all whom it may concern:

Be it known that I, AZRO M. GILES, a citizen of the United States, residing at Dickinson Center, in the county of Franklin and State of New York, have invented certain new and useful Improvements in Saw-Sets; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention aims to provide a tool for setting the teeth of crosscut or other types of saws, the tool being of such formation as to insure uniformity of set to the teeth and adapted to be quickly applied to the teeth and actuated by means of a blow delivered in line with the tool to cause a forward sliding movement in contradistinction to the pivotal movement of the variety of saw-setting tools comprising pivoted members.

The tool comprises, essentially, three parts—a bed upon which the saw-blade rests, a die for engagement with the point of the teeth to effect deflection thereof, and an adjustable gage for limiting the setting. The bed and die may be connected in any manner; but it is preferred to adjustably unite the same, thereby making provision for adapting the tool to different types and sizes of saws.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and drawings hereto attached.

While the essential and characteristic features of the invention are susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a saw-set embodying the invention, showing its application. Fig. 2 is a longitudinal section thereof. Fig. 3 is a detail view of the die. Fig. 4 is a longitudinal section of a modification.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The saw-set comprises a bed 1, forming a rest for the saw 2, a die 3, and gage 4. The

bed 1 may be of any desired length and width, so as to properly position the tool with reference to the saw-blade 2, which rests thereon. The end of the bed receiving the die 3 is made narrow, being preferably of a width corresponding to the die, so as to have the sides of the bed and die about flush. Clamp-screws 5 connect the bed and die. The inner end of the die is inclined, as shown at 6, and a V-shaped groove 7 is formed centrally of said inclined end and is adapted to receive the point of the saw-teeth when properly positioned for setting. The upper corner of the die is made rounding or beveled, as shown at 8. The gage 4 is located about at the angle formed between the bed 1 and the inclined end 6 of the die 3 and is adjustable toward and from the plane of the bed 1 to admit of the teeth of the saw being set to a greater or less degree. This gage may be of any formation and, as shown, consists of a set-screw mounted in a threaded opening extending transversely of the bed. The end of the set-screw constitutes the gage, and the distance thereof from the surface of the bed 1 determines the degree of set of the saw-teeth.

To increase the range of usefulness of the tool, the die 3 is adjustable on the bed 1, and the openings in the bed for the passage of the clamp-screws are elongated, as shown at 9 in Fig. 4. To prevent slipping of the die, the opposing faces of the die and bed are roughened, corrugated, or finely-toothed, as shown at 10 in Fig. 4, and when the clamp-screws are tightened the teeth or corrugations become interlocked and the die cannot possibly slip.

When using the tool, the saw-blade 2 is placed upon the bed and the point of the tooth to be set is inserted in the groove 7 and a smart blow is delivered upon the end of the die, thereby deflecting the point of the tooth into the depression formed between the surface of the bed and the gage 4. The saw-blade may be held in the hand or clamped in a vise and the tool is moved along the same from one tooth to another in succession, it being necessary that the bed 1 lie close against the side of the saw-blade. The setting is accomplished in the ordinary manner, the alternate teeth being set in one direction while the saw is resting on one side. The same is

then reversed to lie on the other side and the intermediate teeth set, as will be readily understood.

Having thus described the invention, what is claimed as new is—

5 1. A saw-set comprising a bed, a gage 4 adjustable with relation to the bed having its working face adapted to move a greater or less distance from the plane of the surface of
10 the same, a die having an inclined end forming an acute angle with the bed, said inclined end being about on a line with the aforementioned inner end of the gage, the die being longitudinally adjustable in elongated openings in the bed and means for
15 clamping the said die in an adjusted position, substantially as set forth.

2. A saw-set comprising a bed, a die longitudinally adjustable in elongated openings

upon the bed and having an inclined end 20 forming an acute angle with the bed, the inclined end being grooved, an adjustable gage 4 located in the angle aforementioned about in line with the inclined end of the die and having its working face adapted to move a 25 greater or less distance from the plane of the surface of the bed to receive the impinge and thereby regulate the set of the saw-teeth, and corrugations upon the meeting sides of the die and bed to prevent slipping of the former 30 upon the latter, substantially as and for the purpose set forth.

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

AZRO M. GILES. [L. S.]

Witnesses:

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