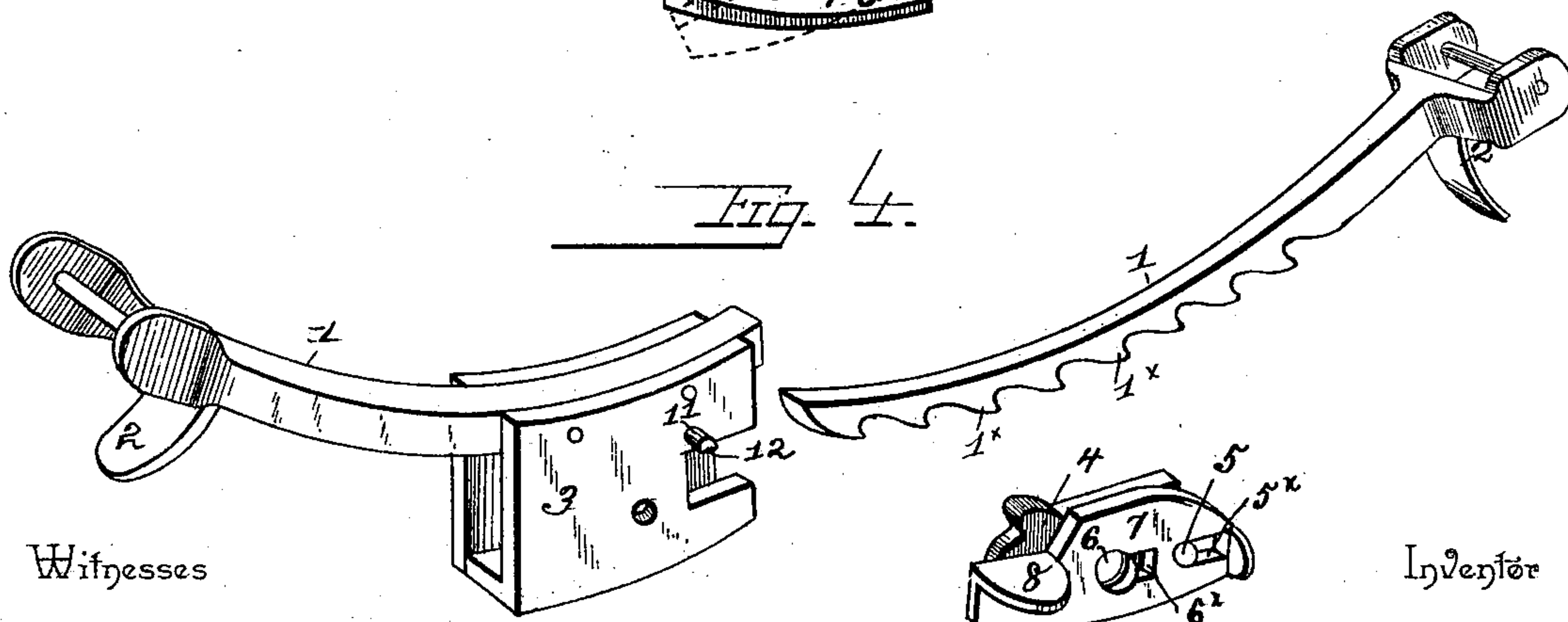
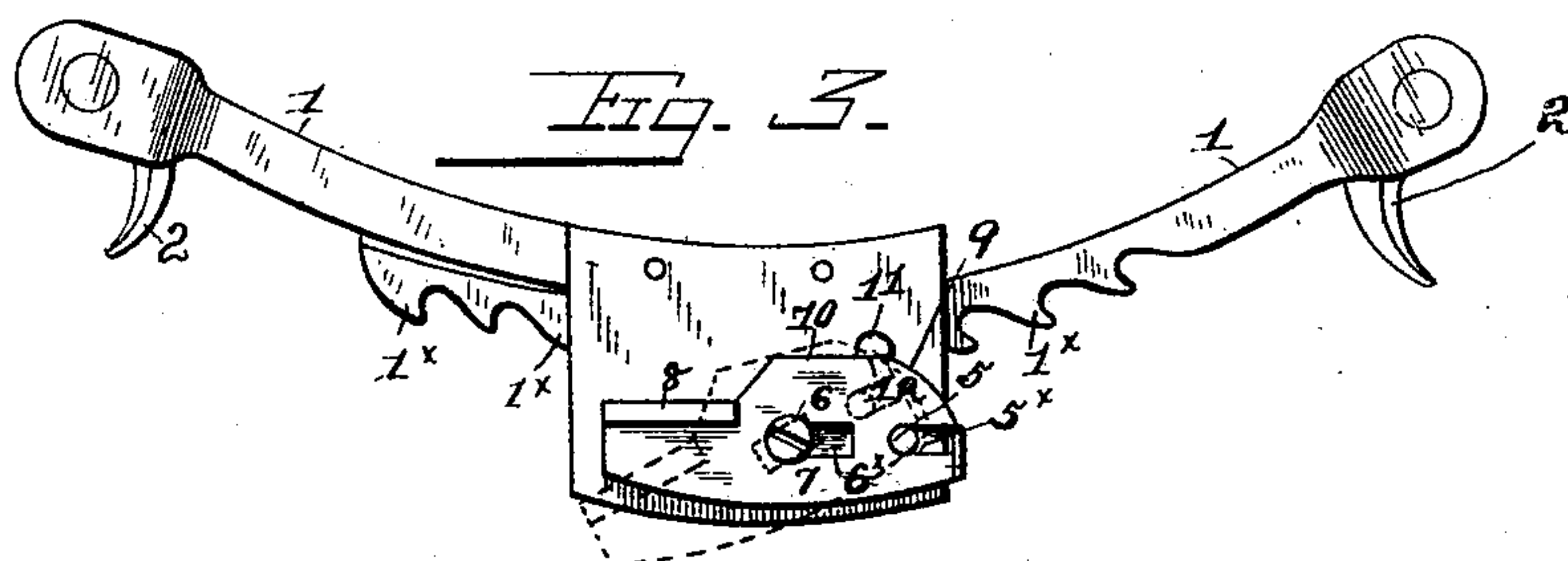
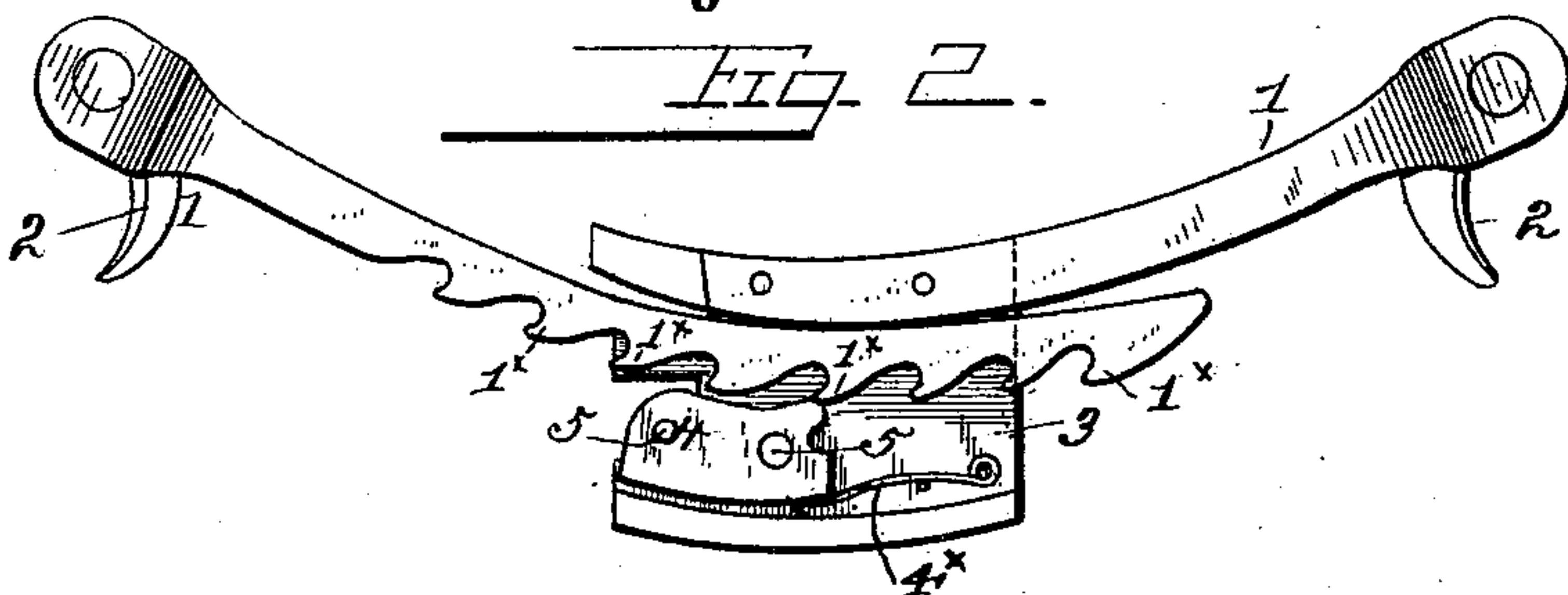
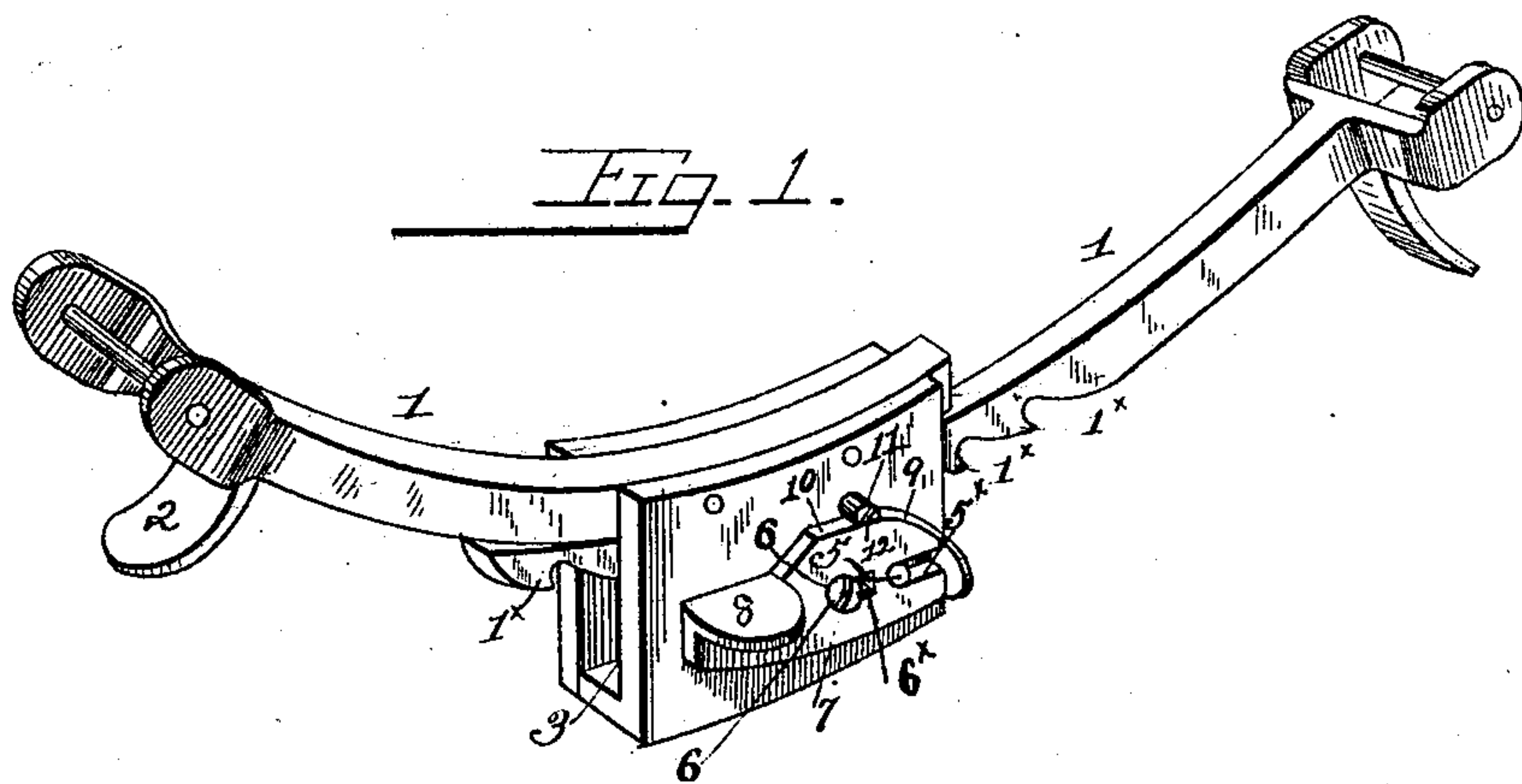


(No Model.)

A. A. PARSONS.
HAME COUPLING.

No. 500,603.

Patented July 4, 1893.



Witnesses

Inventor

Walter Hamarick

By his Attorneys,

A. A. Parsons.

Chas. E. Hyer

Chas. E. Hyer & Co.

UNITED STATES PATENT OFFICE.

ALBERTUS A. PARSONS, OF EUREKA, WISCONSIN.

HAME-COUPLING.

SPECIFICATION forming part of Letters Patent No. 500,603, dated July 4, 1893.

Application filed March 5, 1892. Renewed January 16, 1893. Serial No. 458,626. (No model.)

To all whom it may concern:

Be it known that I, ALBERTUS A. PARSONS, a citizen of the United States, residing at Eureka, in the county of Winnebago and State of Wisconsin, have invented a new and useful Hame-Coupling, of which the following is a specification.

This invention relates to a hame coupling, and consists in the construction and arrangement of the parts as will be more fully hereinafter described and pointed out in the claims.

The object of this invention is to provide a device of this character of simple and effective construction adapted to have a positive locking action, and which may be secured against accidental disengagement, is easily applied, and cheaply manufactured.

In the drawings—Figure 1 is a perspective view of my improved hame coupling. Fig. 2 is a rear elevation thereof, showing part of the casing removed, and the locking-dog free from engagement with one of the arms of the coupling. Fig. 3 is a front elevation of the device, showing the parts locked against disengagement in full lines and disengaged in dotted lines. Fig. 4 is a perspective view of the several parts disconnected.

Referring to the drawings, 1 designates the arms of the coupling of curved form, as usual in this class of devices, having slotted ends for engagement with the parts of the hame, and also provided with projections 2 whereby the device may be operated in moving one part inward toward the other or away therefrom. One of said arms, 1, is formed with ratchet-teeth 1^x, and is movably mounted in a casing or box 3, to which the other arm is permanently secured. Within said casing or box 3 is mounted a dog 4, with a spring 4^x bearing against the same and having a pin 5 at the free end thereof which projects through a slot in said casing or box 3, and into a slot 5^x formed in the outer end of a locking-key 7 movably secured to said casing or box 3 by a headed stud or screw 6, which passes through an elongated slot 6^x in rear of the slot 5^x hereinbefore set forth. The said key 7 is formed with a grip 8 for operating the same, and its front end is beveled as at 9, which terminates in a straight edge 10, said beveled end and straight edge having bearing and movement on a pin 11, with a straight side 12, adjacently

located to said key 7. The headed stud or screw 6 also forms the axis or pintle for the dog 4, and extends through the casing from one side to the other thereof. The said locking-key 7 may be located on the back side of the device or under the same, and in such position as not to be engaged by brush or other projections brought into contact therewith when the hames having the device thereon are in position on the animal thereby obviating an accidental disengagement of the parts.

The operation of the device is as follows: When it is desired to change the adjustment of the movable arm 1 to accommodate hames of different sizes or to adjust one hame to fit different animals, the key 7 is drawn back until the beveled edge 9 bears against the pin 11 and the pin 5 of the key 4 is in the slot 5^x of said key, when the said dog 4 may be raised from disengagement with the ratchet-teeth of the movable arm 1 and said arm be adjusted as desired. When the adjustment is accomplished, the key is moved to bring the straight edge 10 thereof against the straight portion of the pin 11, and this movement of the key will cause the pin 5 of the said dog 4 to move backward in slot 5^x, and thereby draw the engaging end of the dog into the teeth of the movable arm 1, and lock said arm in its adjusted position. When the straight edge 10 of the key 7 bears on the straight portion 12 of the pin 11, the key 7 cannot be turned owing to the position occupied by the screw-stud 6 in the elongated slot 6^x in said key relatively to the line of contact of said straight edge with said stud or pin 11, which provides a clamping action and prevents the key from being turned until drawn backward as before. This binding action is owing to the sliding arrangement of the key, which virtually acts as an eccentric as it is moved over its center or supporting headed stud or screw 6. It therefore becomes necessary to shield said key from engagement by projecting objects with which it may come in contact to prevent accidental movement thereof, as has been hereinbefore set forth.

Having thus described my invention, what I claim as new is—

1. In a hame coupling, the combination of a fixed arm, a movable arm with ratchet teeth therein, a dog adapted to engage said ratchet

teeth and having a projection, and a slotted sliding key adapted to engage the projection of said dog, and control the movement of the latter relatively with the ratchet teeth of the movable arm, substantially as described.

2. In a hame-coupling, the combination of a casing or box having an arm fixed thereto, an arm movably mounted in said box or casing provided with ratchet-teeth, a dog within said casing having a pin or projection extending therethrough, a slotted sliding key engaging said pin or projection of the dog, and a pin or stop on said casing against which said key has bearing, substantially as described.

3. In a hame-coupling, the combination of a box or casing having an arm fixed thereto, a movable arm mounted in said casing provided with ratchet-teeth, a dog in said casing to engage said ratchet-teeth of the movable arm, and a pin thereon extending through said casing, a slotted key to engage said pin or projection of the dog and movable on a

headed stud or screw and provided with a front beveled end terminating in a straight edge, and a pin or stud on the casing with which the front beveled end and straight edge are adapted to engage, substantially as described.

4. In a hame-coupling, a stationary arm, and a movable arm having ratchet-teeth thereon, a dog to engage said ratchet-teeth, a sliding key connected to said dog and having a slot to movably support said key on a headed stud or screw, said key also having a straight edge, and a stud or pin projecting from said casing adapted to engage said straight edge of the key to lock the same in its adjusted position, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

ALBERTUS A. PARSONS.

Witnesses:

C. H. CADY,
JOSEPH C. BRADT.