

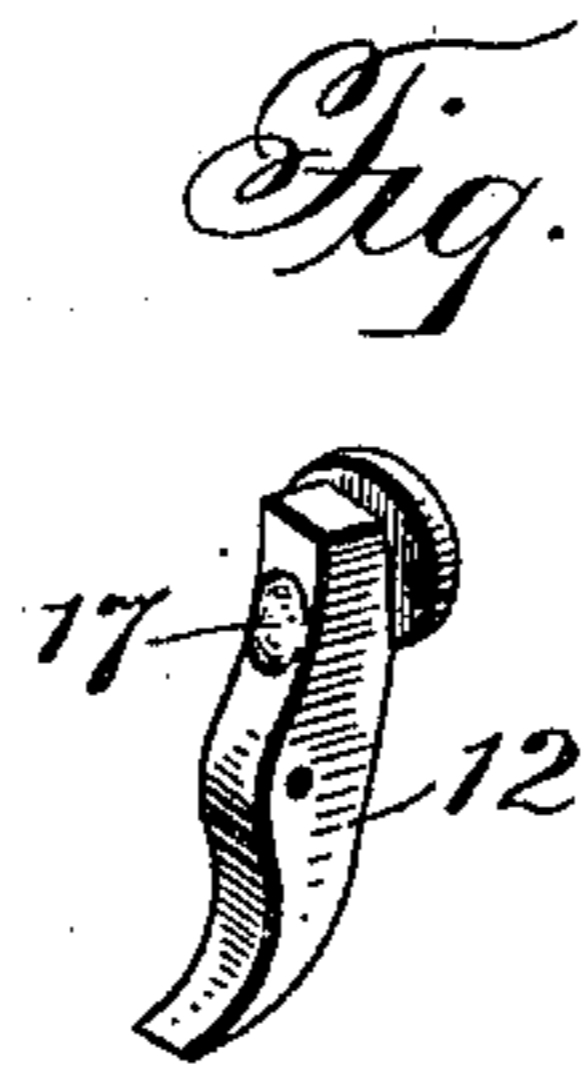
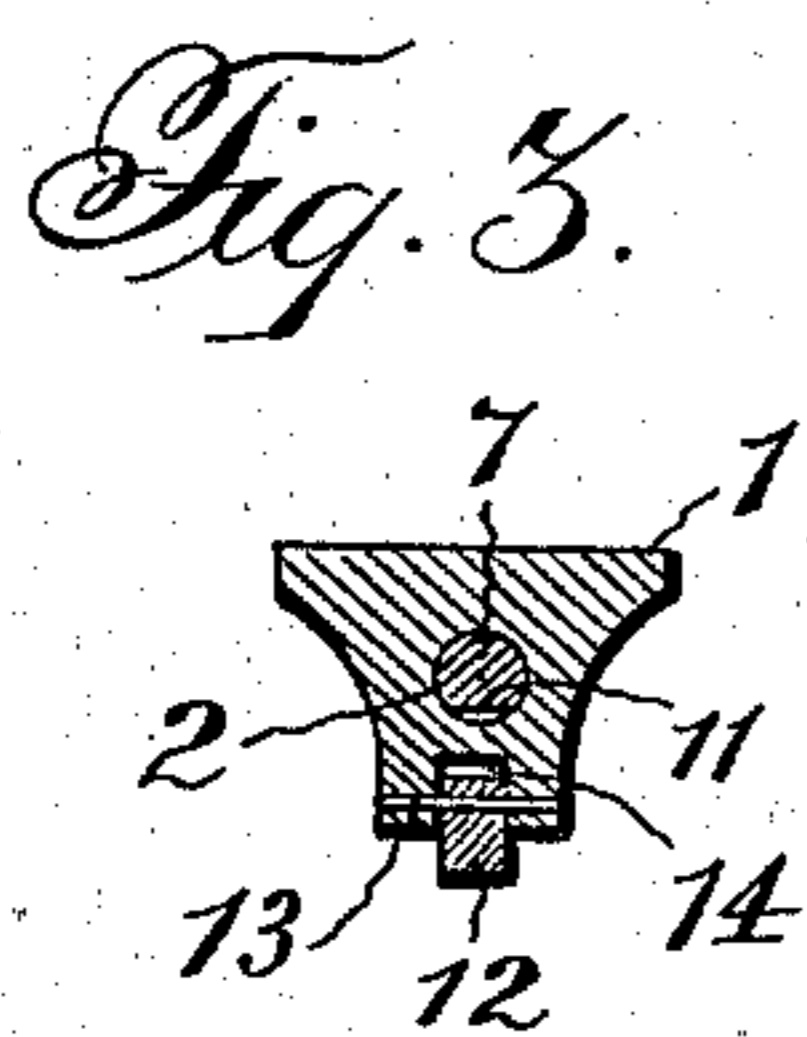
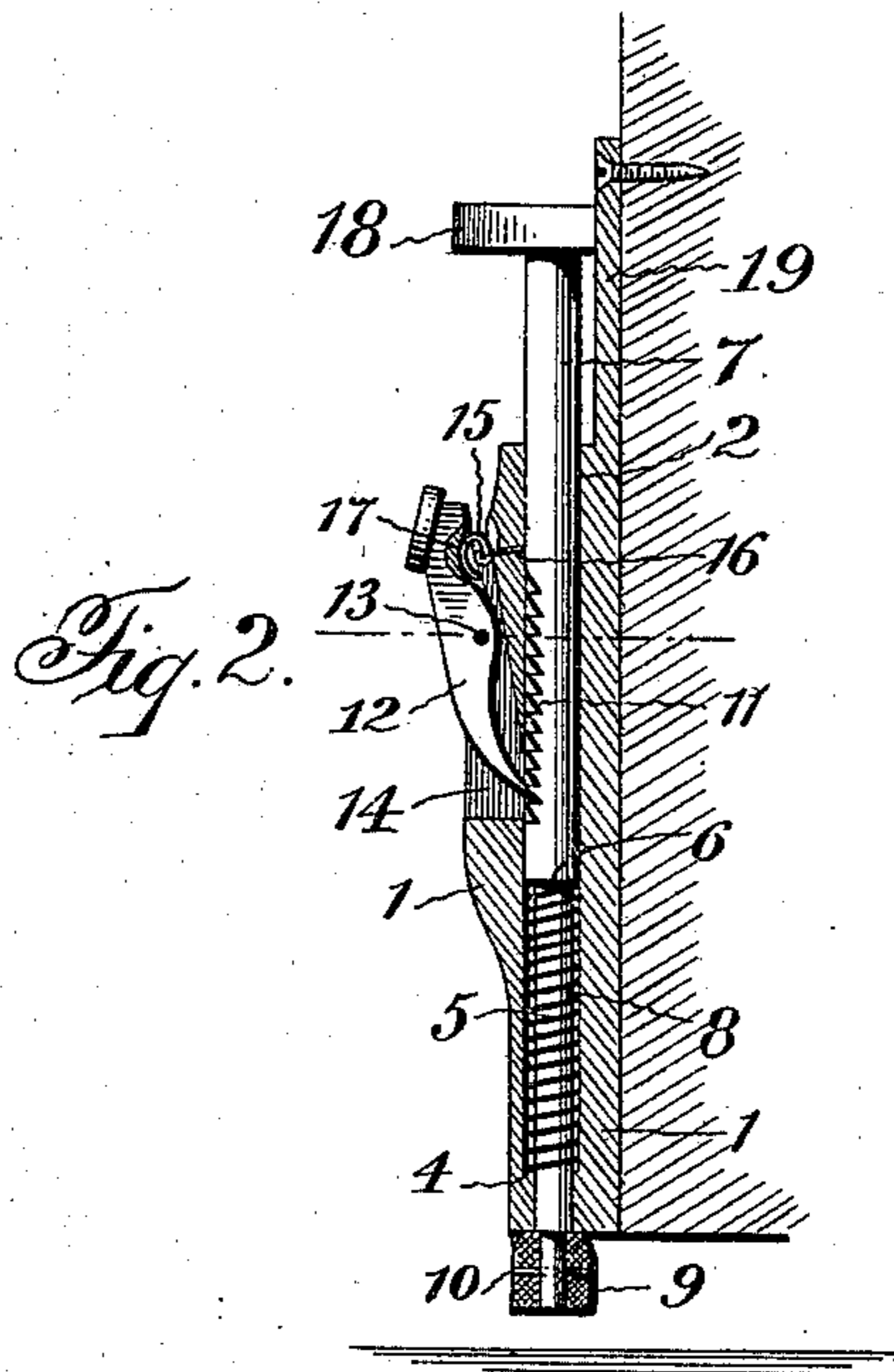
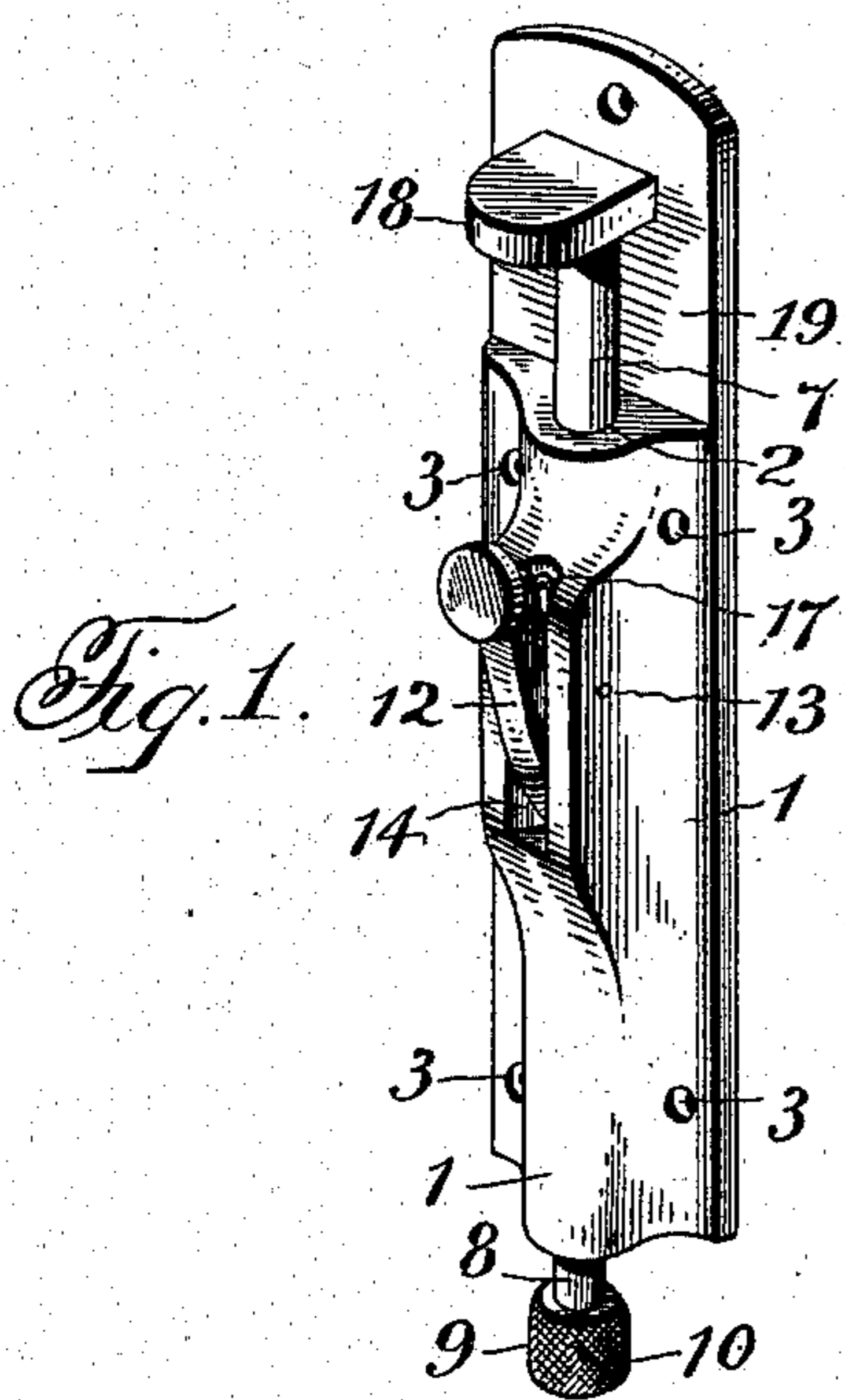
No. 723,216.

PATENTED MAR. 17, 1903.

S. N. SHANK.
DOOR CHECK.

APPLICATION FILED JULY 9, 1902.

NO MODEL.



WITNESSES
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UNITED STATES PATENT OFFICE.

SAMUEL N. SHANK, OF ST. PARIS, OHIO, ASSIGNOR OF ONE-HALF TO JOSEPH H. BIDDLE, OF ST. PARIS, OHIO.

DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 723,216, dated March 17, 1903.

Application filed July 9, 1902. Serial No. 114,946. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL N. SHANK, a citizen of the United States, residing at St. Paris, in the county of Champaign and State of Ohio, have invented a new and useful Door-Check; 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.

The invention relates to a door-check; and it has for its object to provide a simple and efficient door-check adapted to be applied to the bottom of a door and capable of engaging the floor without injuring the carpet or other covering and of firmly holding a door in any desired position, whereby the door is prevented from slamming and breaking glass or otherwise injuring the door.

A further object of the invention is to provide a door-check of this character which will be adapted to be easily and quickly released and which when released will automatically disengage itself from the floor.

The invention consists in the construction and novel arrangement of parts hereinafter fully described and shown, and particularly pointed out in the claim.

In the drawings forming part of this specification, and in which like numerals of reference designate corresponding parts, Figure 1 is a perspective view of a door-check constructed in accordance with this invention. Fig. 2 is a longitudinal sectional view of the same. Fig. 3 is a transverse sectional view. Fig. 4 is a detail view of the pawl.

Referring to the drawings, 1 designates a casing designed to be arranged vertically on a door at the bottom thereof and provided with a central longitudinal bore or opening 2 and having perforations 3 at opposite sides thereof to receive screws or other suitable fastening devices for securing the door-check to the door. The casing is provided near the lower end of its bore with an interior annular shoulder 4, adapted to receive the lower end of a coiled spring 5, which has its upper end engaging a shoulder 6 of a rod or plunger 7, arranged within the longitudinal bore or opening and extending above and below the same. The

lower portion 8 of the rod or plunger is reduced to form the shoulder 6 and extends below the casing and has a rubber or other elastic buffer 9, secured to it by a pin 10 or other fastening device, and the said buffer is adapted to engage the floor without injuring the carpet or other covering. The upper portion of the plunger or rod 7 is provided with a series of notches 11, forming a series of ratchet-teeth and adapted to be engaged by a pawl 12, whereby the rod or plunger is held in a depressed position in engagement with the floor against the action of the coiled spring, and the latter, which is compressed when the rod or plunger is forced downward, is adapted to automatically lift the rod or plunger as soon as the pawl is disengaged from the ratchet. The pawl is pivotally mounted between its ends by a transverse pin 13 and is arranged in a recess 14 of the front portion of the casing. The recess extends longitudinally of the casing, and the pawl or dog, which has its lower end formed into a tooth for engaging the ratchet, is held in such engagement by a spring 15, interposed between the upper portion of the pawl or dog and the rear wall of the recess. The spring consists of a single piece of resilient material bent to form an outer loop and coiled at one end of the same and provided with a shank 16, which is fitted in a socket of the casing. The upper portion of the pawl or dog is provided with a notch or cavity 17 to receive the loop of the spring, whereby the latter is retained in position. The pawl is provided at its top with an enlargement or head to enable it to be readily depressed by the operator, and the teeth of the ratchet of the rod or plunger are beveled at their outer faces and shouldered at their upper ends, and they are adapted to be automatically engaged by the pawl or dog when the rod is forced downward. In order to enable the rod or plunger to be forced downward, it is provided with a segmental head 18, arranged horizontally and provided with a straight rear edge which fits against a thin vertical extension of the casing, whereby the rod or plunger is held against rotation and the teeth retained in alinement with the pawl or dog. The upper end of the extension 19

is perforated for the reception of a screw or other fastening device for securing the casing to the door.

It will be seen that the device is exceedingly simple and inexpensive in construction, that it possesses great strength and durability, and that it is adapted to be readily operated to engagement with and released from a floor.

10 What I claim is—

A device of the class described, comprising a casing having a round bore or opening and provided at the top with a vertical extension, having a flat face and forming a guide, a
15 round rod extending through the casing and

provided at the upper end with a head having a straight inner edge fitted against the extension and guided by the same throughout the entire movement of the rod whereby the same is held against rotation said rod being provided at one side with ratchet-teeth and a spring-actuated dog mounted on the casing and engaging the ratchet-teeth, substantially as described. 20

In testimony whereof I have hereto affixed my signature in the presence of two witnesses. 25

SAMUEL N. SHANK.

Witnesses:

E. D. HAWK,

O. H. KELLY.