

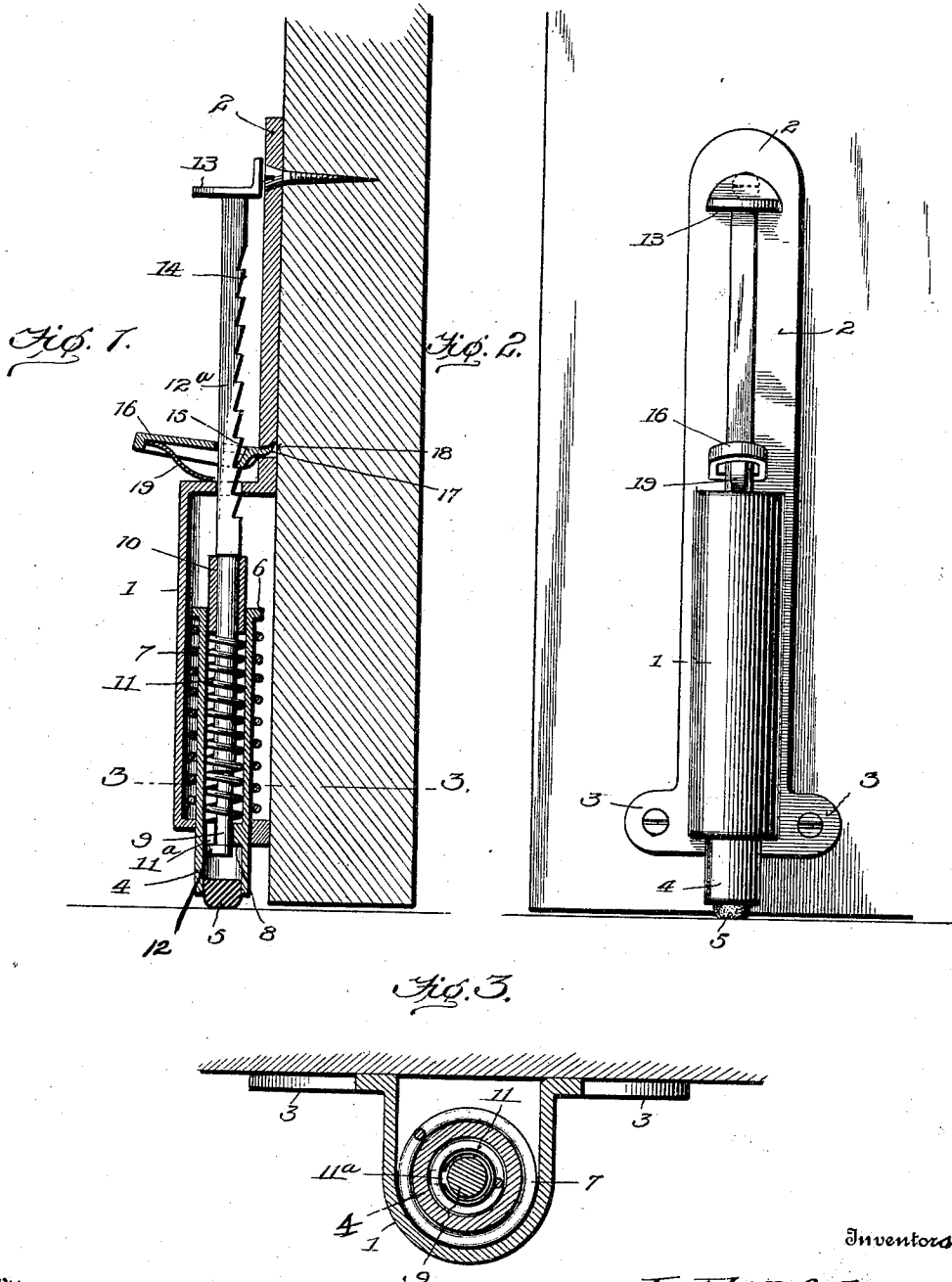
No. 684,586.

J. F. & N. N. NEHER.
DOOR CHECK.

Patented Oct. 15, 1901.

(Application filed Oct. 16, 1900.)

(No Model.)



Witnesses:
Harry S. Rohrer,
Hubert D. Lawson

Inventors:
J. F. Neher,
N. N. Neher
By Victor J. Evans Attorney

UNITED STATES PATENT OFFICE.

JOHN F. NEHER, OF SAGINAW, TEXAS, AND NOAH N. NEHER, OF STOCKTON, KANSAS.

DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 684,586, dated October 15, 1901.

Application filed October 16, 1900. Serial No. 33,275. (No model.)

To all whom it may concern:

Be it known that we, JOHN F. NEHER, residing at Saginaw, in the county of Tarrant and State of Texas, and NOAH N. NEHER, residing at Stockton, in the county of Rooks and State of Kansas, citizens of the United States, have invented new and useful Improvements in Door-Checks, of which the following is a specification.

This invention relates to new and useful improvements in door-checks; and its primary object is to provide a device of simple and durable construction adapted to be secured to a door of any form and which will effectively hold the door in any position to which it may be swung.

A further object is to provide means whereby said check may be readily released from contact with the floor.

The invention consists in the novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a vertical section through the door-check, showing the same in position upon a door. Fig. 2 is a front elevation thereof; and Fig. 3 is a section on line 3 3, Fig. 1.

Referring to said figures by numerals of reference, 1 is a substantially semicylindrical casing having a tongue or plate 2 extending from one end thereof and adapted to be secured to a door in any suitable manner. Ears 3 extend from the opposite end of the casing and are also adapted to be secured to a door. A tube 4 is slidably mounted within the lower end of the casing, and a plug 5, of rubber or other suitable material, is fitted within the bottom of this tube and is adapted to be forced into contact with the floor. An annular flange 6 is provided at the upper end of the tube 4, and a coil-spring 7 incloses the tube, the ends thereof bearing upon the flange 6 and upon the bottom of the casing 1. This spring serves to hold the tube 4 and the plug 5 therein normally raised. A partition 8 is formed within the tube 4, and slidably mounted therein is a plunger 9, which extends upward through the top of the tube 4 and the casing 1. A sleeve 10 is secured upon

the plunger at a point adjacent to the upper end of the tube and is slidably mounted within said tube. A coil-spring 11 incloses the plunger and bears at opposite ends upon said sleeve and the partition 8, respectively. This spring serves to hold the plunger normally projected from the top of the tube 4. A groove 11^a is formed within a wall of the aperture in the partition 8 and is adapted to serve as a guide for a stud 12, formed at the lower end of the plunger 9. This stud serves to prevent the plunger from turning within the tube. The upper portion of the plunger 9 is squared, as at 12^a, and the upper end of this squared portion is provided with a foot-plate 13, whereby said plunger may be readily depressed by placing the foot thereon. Teeth 14 are formed upon the inner surface of the squared portion 12^a and are adapted to be engaged by a dog 15, extending downward from a plate 16, having a tongue 17 extending within an aperture 18, formed within the tongue 2 at a point adjacent to the top of the casing 1. This plate incloses the plunger, and a spring 19 serves to hold the dog thereof normally in engagement with one of the teeth 14. When it is desired to hold the door in a certain position, the plunger 9 is depressed, resulting in the contraction of the springs 7 and 11. The tube 4 will be carried downward until the plug 5 contacts with the floor. During the downward movement of the plunger the dog 15 will slip over the teeth 14, and as soon as the movement of the plunger has stopped said dog will engage one of the teeth and hold the plunger in the position to which it was forced. When it is desired to release the stop from engagement with the floor, it is merely necessary to depress the plate 16. This will cause the dog 15 to swing back out of engagement with the tooth, and the plunger 9 and the tube 4 will then be free to spring upward to their normal positions.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

1. The combination with a casing, of a flanged tube slidably mounted in the lower end thereof, a spring inclosing said tube bearing at one end against the flange thereof and adapted to hold the same normally retracted,

a partition within the tube, a plunger slidably mounted within the partition and extending through the upper end of the casing, a spring within the tube and inclosing the
5 plunger and adapted to hold the same normally projected upward from the tube, teeth upon the plunger, a plate inclosing said plunger and hinged to the casing, a dog to said plate adapted to engage the teeth, and means
10 for holding said dog normally in engagement therewith.

2. The combination with a casing, of a tube slidably mounted in the lower end thereof, a plug within the bottom of the tube, a spring
15 inclosing said tube and adapted to hold the same normally retracted, a partition within the tube, a plunger slidably mounted therein, a stud thereon slidably mounted within the partition, a sleeve upon the plunger and with-

in the tube, a spring inclosing the plunger and 20 bearing at opposite ends upon the partition and sleeve, teeth upon the plunger, a foot-plate upon said plunger, a plate hinged to the casing and inclosing the plunger, a dog thereto adapted to engage one of the teeth, and a 25 spring holding said dog normally in contact with the teeth.

In testimony whereof we affix our signatures in presence of two witnesses.

JOHN F. NEHER.
NOAH N. NEHER.

Witnesses to John F. Neher:

C. T. MCINTOSH,
CHAS. H. STARTS.

Witnesses to Noah N. Neher:

W. E. COOLBAUGH,
T. E. BALDWIN.