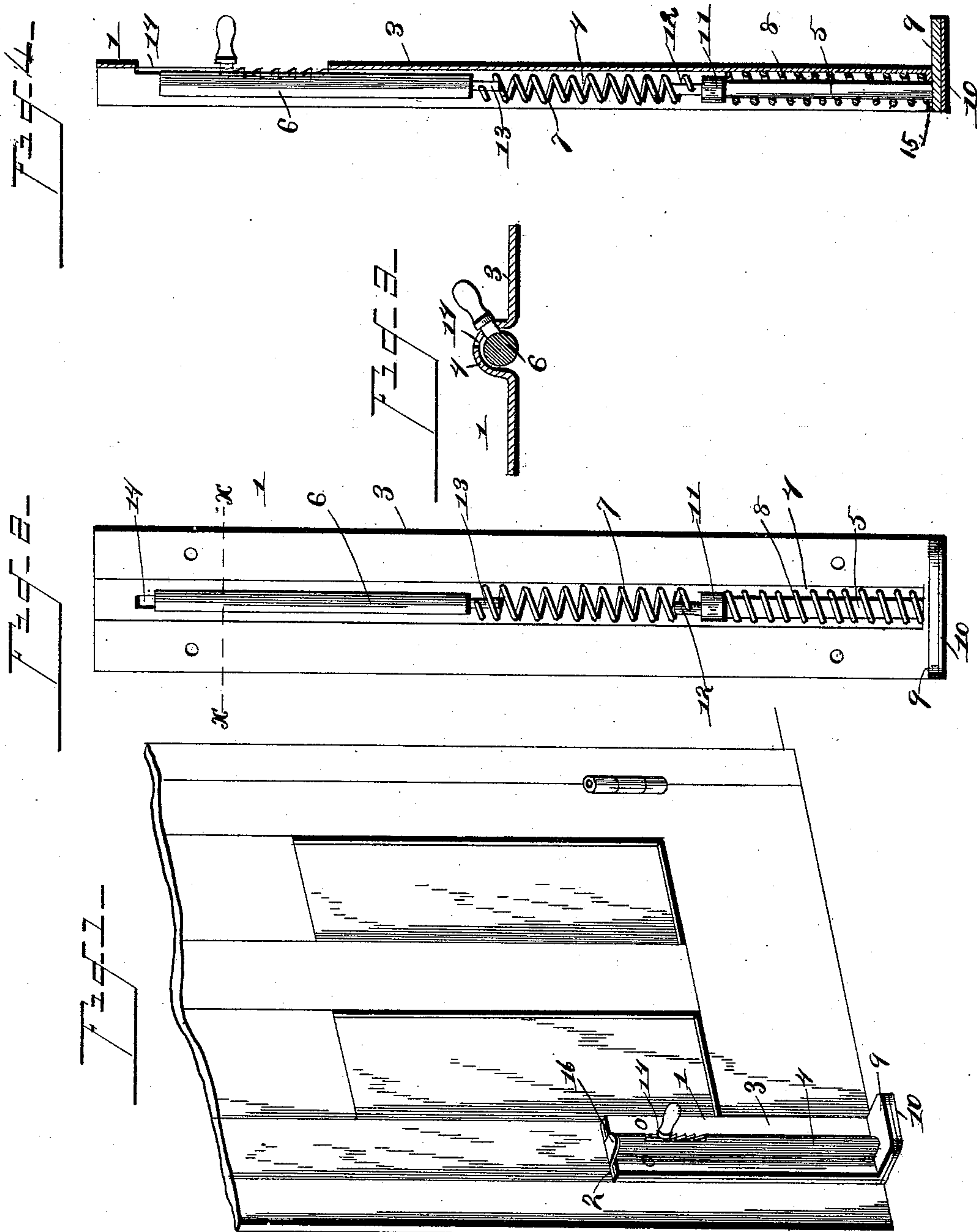


(No Model.)

A. E. MATHESON.
DOOR CHECK.

No. 431,667.

Patented July 8, 1890.



Witnesses
Geo. C. Frick.
H. J. Riley,

Inventor
Alexander E. Matheson

By *His Attorneys*
C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

ALEXANDER E. MATHESON, OF OBERLIN, KANSAS.

DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 431,667, dated July 8, 1890.

Application filed February 1, 1890. Serial No. 338,861. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER E. MATHESON, a citizen of the United States, residing at Oberlin, in the county of Decatur and State of Kansas, have invented a new and useful Door-Stop, of which the following is a specification.

The invention relates to improvements in door-stops.

10 The object of the present invention is to provide a door-stop of simple and inexpensive construction, adapted to be readily secured to a door and capable of engaging the floor and securely holding the door at any desired point
15 without liability of injuring the carpet.

A further object of the invention is to provide a combined door-stop and buffer and do away with the ordinary projecting knobs that are secured to the wall.

20 The invention consists in the construction and novel combination and arrangement of parts, hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

25 In the drawings, Figure 1 is a perspective view of a door-stop constructed in accordance with the invention and shown applied to the lower end of the door. Fig. 2 is a rear elevation, the back of the casing being removed to
30 show the disposition of the parts. Fig. 3 is a transverse sectional view taken on line *xx* of Fig. 2. Fig. 4 is a longitudinal sectional view.

Referring to the accompanying drawings, 1 designates the casing, which is composed of
35 a back plate 2 and a front plate 3, that is suitably secured to the back plate, and is provided with a centrally-arranged longitudinal groove 4, that is formed by bending the metal, and provides a housing for the bolt 5, operating-rod 6, and springs 7 and 8. The bolt is
40 arranged in the lower end of the groove 4, and is provided with a foot or pressure-plate 9, that has upon its lower face a rubber cushion 10, that is designed to engage the floor, and
45 thereby securely hold the door at any desired position. The said bolt and pressure-plate are normally held in an elevated position by a spiral spring 8, that is coiled around the bolt and bears against the flange 15 of the
50 plate 3, and a shoulder 11, formed upon the bolt near the upper end. The upper end 12 of the bolt 5 and the lower end 13 of the op-

erating-rod 6 are reduced and provided with perforations, in which are secured the ends of a spiral spring 7, that is interposed between 55 the bolt and the operating-rod, and when the operating-rod is depressed to bring the bolt and the pressure-plate at the lower end thereof in contact with the floor the said spring exerts a constant pressure upon the bolt and 60 securely holds the pressure plate or foot against the floor, but will give and prevent the carpet being injured should the door be suddenly pushed from its position. The upper end of the casing is provided with a longitudinal slot 14, which has one of its edges 65 provided with notches or teeth that are shouldered in one direction to provide a rack which is engaged by an arm or knob extending out laterally from the operating-rod and projecting 70 through the longitudinal slot, whereby the operating-rod is held in a depressed position, and is rendered capable of maintaining any desired pressure upon the bolt. The back plate 2 of the casing is provided with an integral lip 16, that closes the upper end of the 75 groove or housing 4, and the lower end of the groove or housing is provided with a flange, against which the lower end of the spring 8 bears, and which is provided with a central 80 opening to receive the bolt to which it conforms. The said bolt is square or rectangular in cross-section, and is thereby prevented from turning.

Having described my invention, what I 85 claim is—

1. In a door-stop, the combination of the casing, the bolt arranged at the lower end of the casing and adapted to engage the floor, the operating-rod arranged above the bolt, 90 the spiral spring 7, interposed between the bolt and the operating-rod, and the spiral spring 8, engaging the lower end of the casing and the upper end of the bolt and adapted to hold the latter normally elevated, substantially as described. 95

2. In a door-stop, the combination of the casing composed of the back plate 2 and the front plate 3, provided with the longitudinal groove forming a housing, the bolt, and the 100 operating-rod arranged in the housing, the spiral spring 7, interposed between the bolt and the operating-rod and connected to their ends, and the spiral spring 8, engaging the

lower end of the casing and the shoulder 11 at the upper end of the bolt, substantially as and for the purpose described.

3. In a door-stop, the combination of the 5 casing composed of a back plate 2 and the front plate 3, provided with a longitudinal groove or housing and having near its upper end a longitudinal slot, one edge of which being formed into a rack, the bolt, the operating-rod arranged above the bolt and provided 10 with a laterally-projecting arm extending through the longitudinal slot and adapted to engage the rack, the spiral spring 7, in-

terposed between and connected to the bolt and the operating-rod, and the spiral spring 15 8, coiled around the bolt and engaging the shoulder at the upper end thereof and the lower end of the casing, substantially as described.

In testimony that I claim the foregoing as 20 my own I have hereto affixed my signature in presence of two witnesses.

ALEXANDER E. MATHESON.

Witnesses:

F. W. CASTERLINE,
G. G. RATHBONE.