

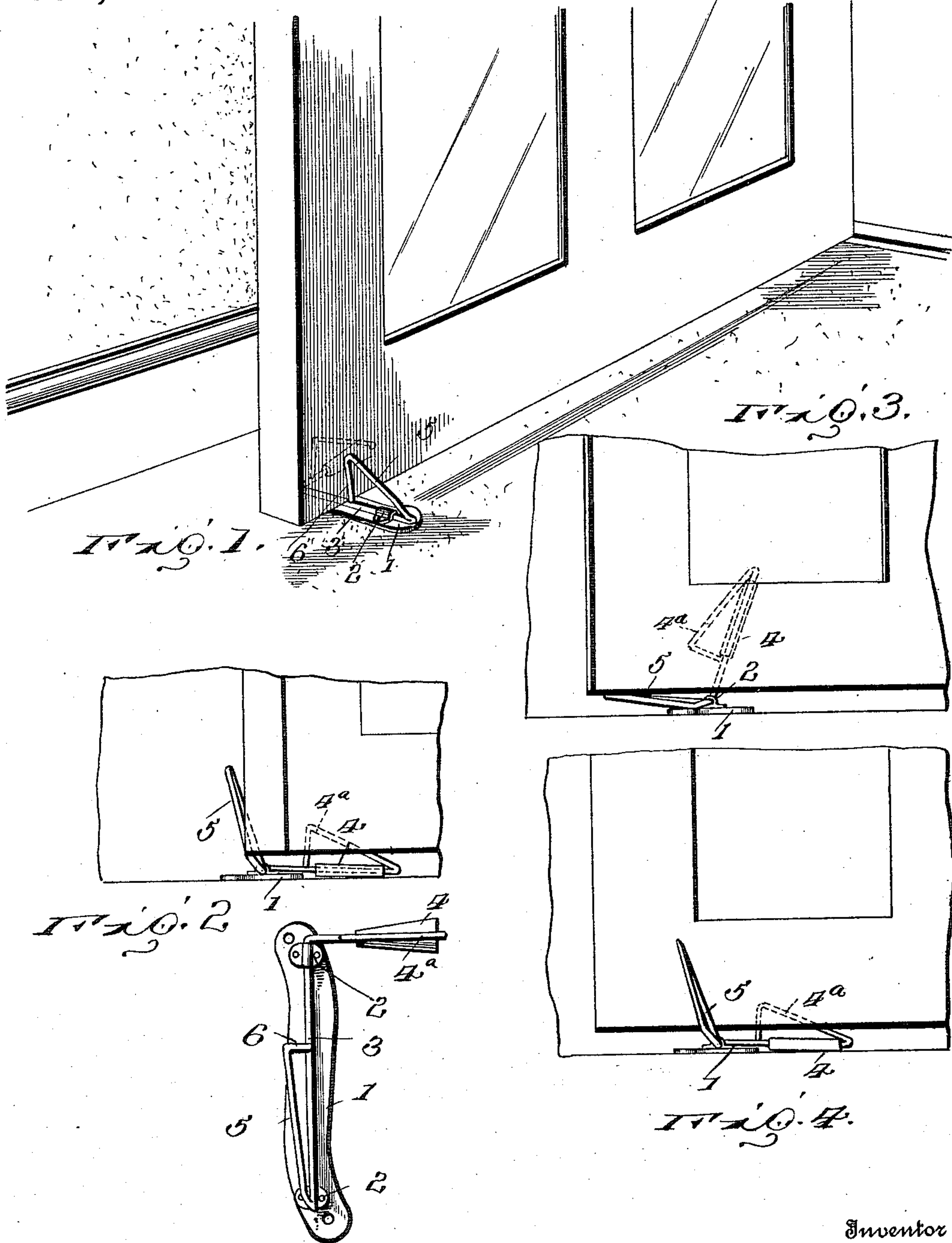
J. T. KENT.

DOOR STOP.

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998,693.

Patented July 25, 1911.



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JOHN T. KENT, OF DOUGLAS, ARIZONA TERRITORY.

DOOR-STOP.

998,693.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, JOHN T. KENT, citizen of the United States, residing at Douglas, in the county of Cochise and Territory of Arizona, have invented certain new and useful Improvements in Door-Stops, of which the following is a specification.

This invention comprehends certain new and useful improvements in devices for holding swinging doors in open position, and the invention has for its primary object, a simple and durable construction of device of this character, the parts of which may be cheaply manufactured and easily assembled, which may be easily secured in applied position to any floor without the services of a skilled mechanic, which will operate by gravity and will not be liable to get out of order, no spring being employed, which will be adaptable for any ordinary swinging door, which will not be cumbersome or unsightly or mar the floor or interfere with the proper cleaning of the latter, and which will be automatic and positive and sure in its action, in its operation of engaging the door to hold the same open.

With this and other objects in view as will more fully appear as the description proceeds, the invention consists in certain constructions, arrangements and combinations of the parts that I shall hereinafter fully describe and claim.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of my improved door stop, the door being shown held in open position; Figs. 2, 3 and 4 are elevations, illustrating the door in three different stages of movement toward the open position; and Fig. 5 is a top plan view of the device.

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.

My improved door stop comprises a base 1 which is preferably formed of metal and which may be of any desired design in order to conform in appearance to the other metallic features of the door hardware, said base plate being formed, preferably near its ends, with openings to receive screws or similar fastening devices, whereby the

device may be easily attached to the floor. The base plate 1 is formed at its ends with bearings 2 in which a rod 3 is mounted to turn about its longitudinal axis, said rod extending substantially longitudinally of the base plate 1 and being formed at one end with a weighted arm 4. The opposite end of the rod 3 is returned upon itself, as clearly illustrated in the drawing, to provide a longitudinally inclined depressing rod 5 which terminates in a preferably abrupt end 6 secured to the rod 3 and forming a shoulder against which the door is adapted to abut, so as to be held in open position. It is to be particularly noted that the rod 5 and the arm 4 are so arranged that when the latter is resting on the floor, the former, which will then be in its relatively elevated position, will be transversely inclined, or at an angle, say of twenty degrees to the vertical.

From the foregoing description in connection with the accompanying drawing, the operation of my improved door stop will be apparent.

In the practical use of the device, the base plate 1 is secured to the floor, the parts 3, 4, 5 and 6, which constitute the stop member of the device being normally in such a position that the arm 4 will rest on the floor and the inclined depressing rod 5 will stand substantially upright, but to one side of the vertical, opposite to the direction in which the arm 4 projects. With the parts in this position, when the door is swung open, its lower edge will engage and ride upon the rod 5, depressing the same and turning the rod 3 in a direction to raise the arm 4. As soon as the lower edge of the door passes the shouldered end of the rod 5, the weight of the arm 4 will be permitted to act so as to swing the rod 5 upwardly and cause the shoulder 6 to serve as an abutment, preventing the accidental closing of the door. In order to close the door, it is only necessary for one to place the foot on the rod 5 so as to swing the same down to permit the lower edge of the door to pass the shoulder, whereupon the door may be freely moved to the closed position.

Preferably, the arm 4, which is weighted, extends through the weight which is relatively flat and lies close to the floor in normal position, the wire arm being then returned upon itself and extended upwardly

and laterally to the inner end of the weight, as indicated at 4^a, so as to constitute a back stop for the door.

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

1. A door stop, comprising a base plate, a rod journaled to turn about its longitudinal axis on said base plate, a weighted arm connected to one end of said rod, and a depressing rod connected to the opposite end of said rod and terminating at one end in a shoulder, said depressing rod being inclined from end to end and normally held in a laterally slanting position.
2. A door stop, comprising a base plate provided at its ends with bearings, a rod journaled to turn about its longitudinal axis in said bearings, a weighted arm connected to one end of said rod, and a longitudinally

inclined depressing rod connected to the other end of the first-named rod and provided with a shoulder, for the purpose specified.

3. A door stop, embodying a longitudinally inclined depressing rod, an arm provided with a weight, and a connection between the rod and arm arranged to raise the arm upon the depressing of the rod, the rod being provided with a stop shoulder, and the arm being formed with an upwardly extending portion constituting a back stop.

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

JOHN T. KENT. [L. s.]

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."