

J. P. HOLTZHouser.
DOOR HOLDER.
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919,579.

Patented Apr. 27, 1909.

Fig. 1.

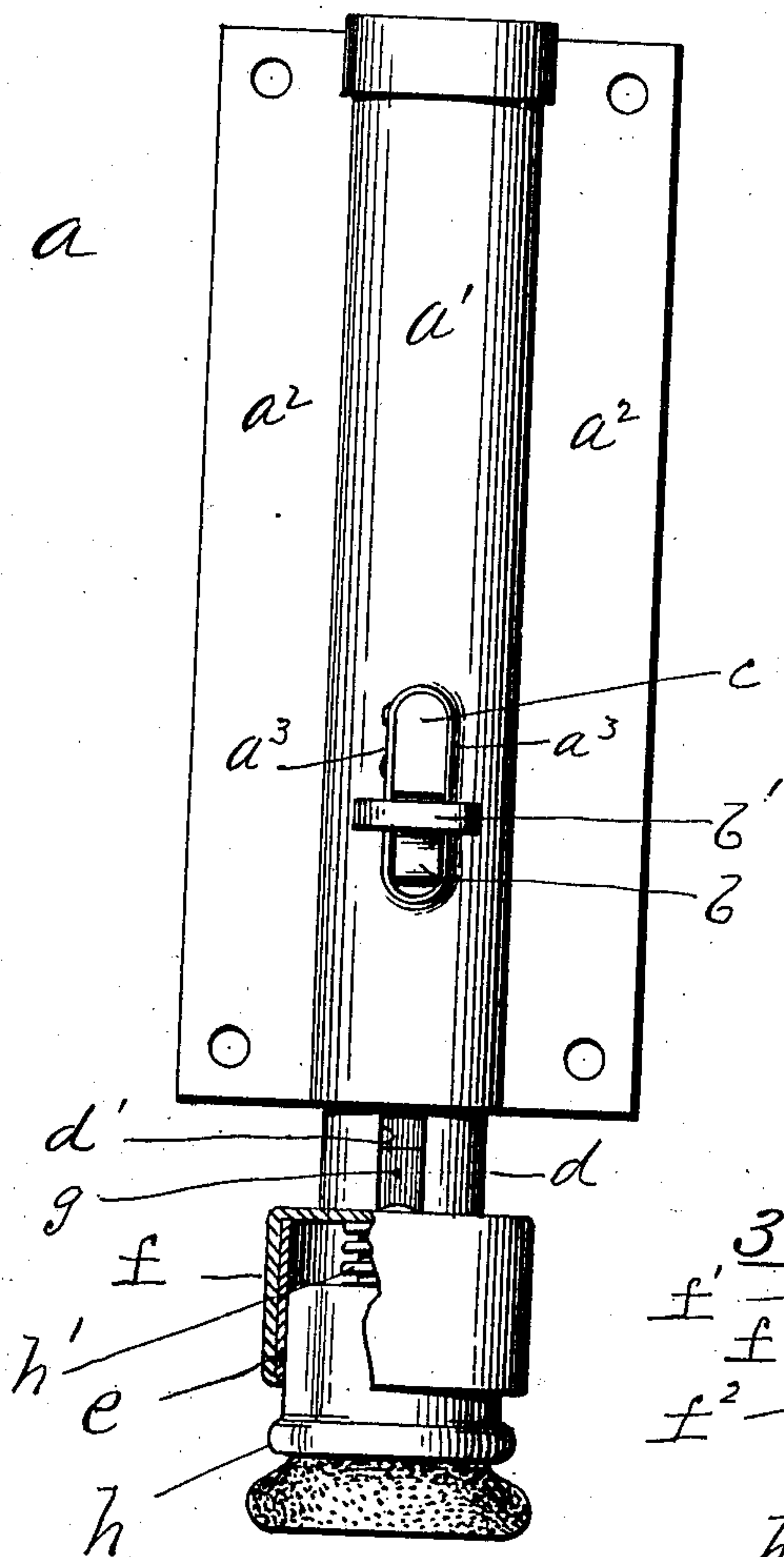


Fig. 2.

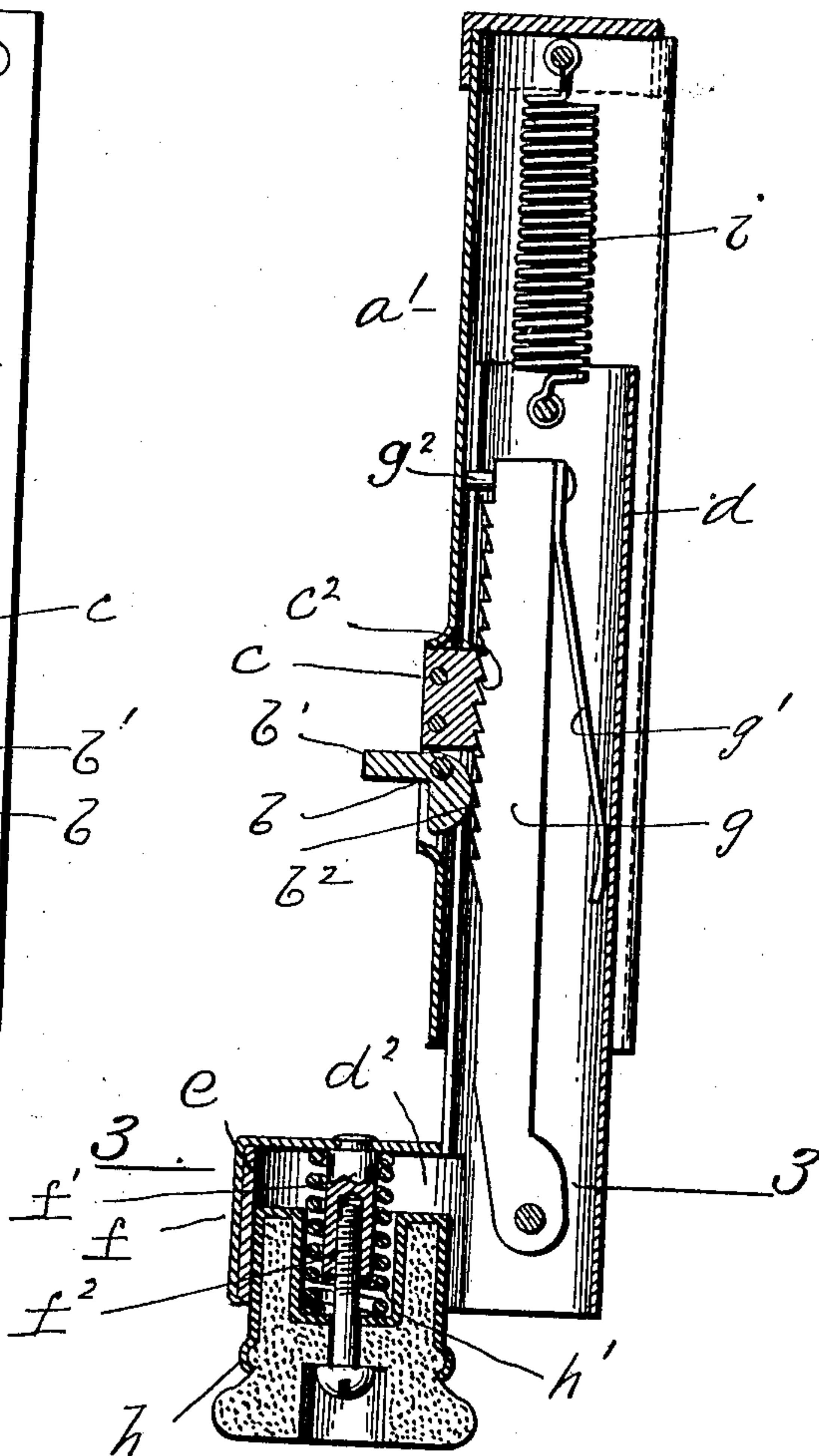
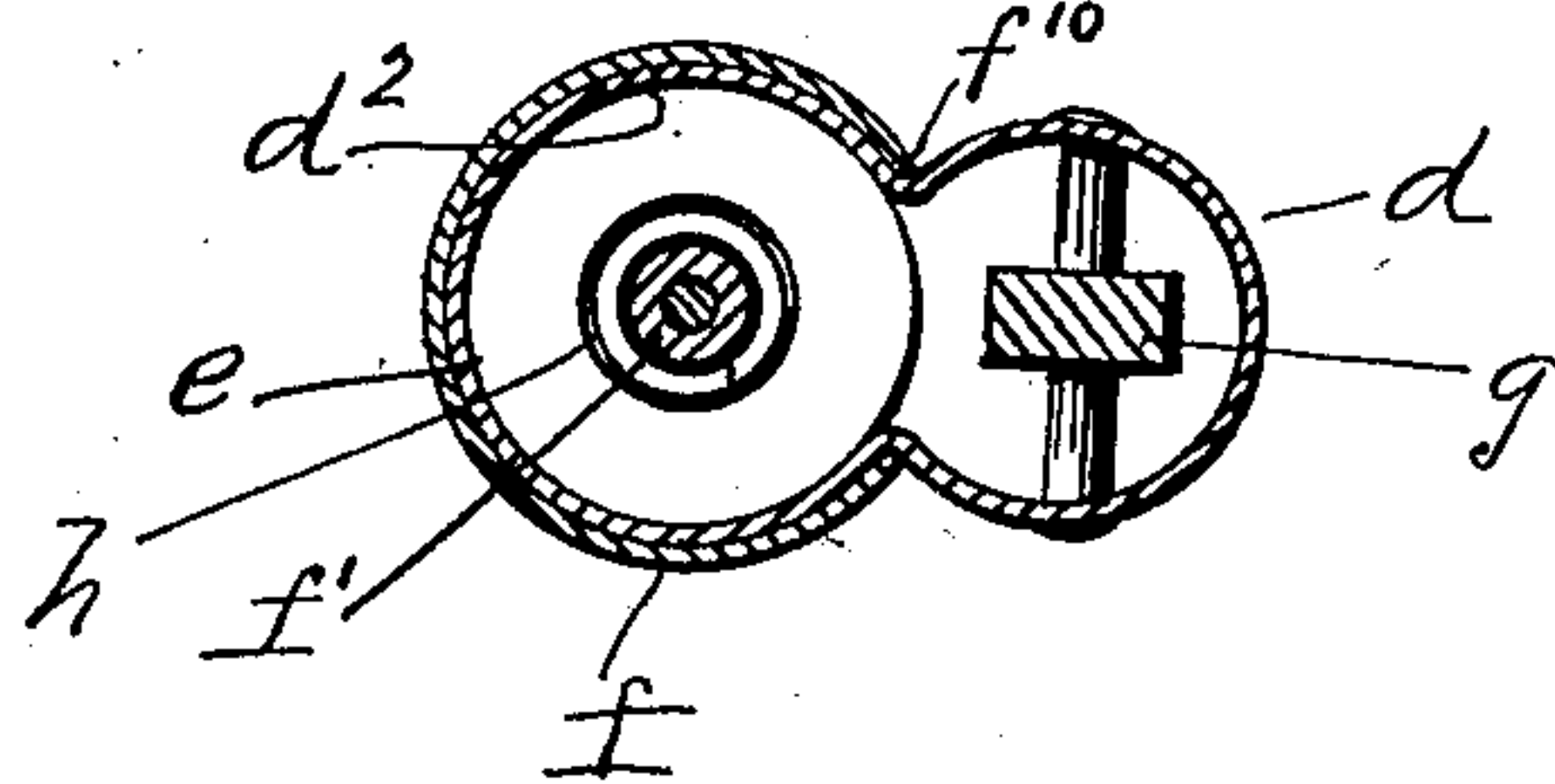


Fig. 3.



WITNESSES:

Chas. F. Church
Attorney

INVENTOR.

J. P. Holtzhouser
BY *Attorney*
ATTORNEY.

UNITED STATES PATENT OFFICE.

JACOB P. HOLTZHouser, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO THE STANLEY WORKS, OF NEW BRITAIN, CONNECTICUT, A CORPORATION OF CONNECTICUT.

DOOR-HOLDER.

No. 919,579.

Specification of Letters Patent.

Patented April 27, 1909.

Application filed June 20, 1908. Serial No. 439,633.

To all whom it may concern:

Be it known that I, JACOB P. HOLTZHouser, a citizen of the United States, and a resident of New Britain, in the county of
5 Hartford and State of Connecticut, have invented certain new and useful Improvements in Door-Holders, of which the following is a specification.

The object of the invention is to produce a
10 device of the class specified having features of novelty and advantage and more especially to produce a device of this character in which substantially all the parts are formed
up from sheet metal, producing a light,
15 strong, construction which can be manufactured at a comparatively low cost.

Figure 1 is a front view with part broken
away to show construction. Fig. 2 is a cen-
tral side elevation. Fig. 3 is a sectional view
20 on the line 3—3 of Fig. 2.

A flat piece of sheet metal is shaped up to
form a tubular casing a' having the attaching
flanges a^2 a^2 . In the front of this casing an
aperture is formed having side flanges a^3 a^3
25 standing out from the casing. A tripping
lever b is pivotally supported between these
flanges a^3 a^3 having a toe-piece b' extending
outside of the casing, the other end b^2 extend-
ing inside of the casing and adapted to dis-
30 engage the hereinafter described interlocking
parts. The casing is also provided with one
or more inwardly projecting shoulders which,
as illustrated, are in the form of serrations c^2
formed in a plate c which is fixedly secured
35 in the opening in the casing just above the
tripping lever.

d is the bolt formed from sheet metal into
tubular form, the edges of the plate from
which the bolt is formed being separated to
40 produce a slot d' on the front side of the bolt.
At the lower front side of the bolt arms d^2 are
formed which, as shown, are bent around
into circular form to produce a foot-piece
frame e . A cap f fits down over this frame,
45 being slotted at one side as at f^{10} to embrace
said arms, and is fixedly secured to said frame
as by swaging over its lower end to interlock
with the lower edge thereof. A stud f' is se-
cured to the cap and projects from the under
50 side thereof, being recessed and threaded to
receive a screw f^2 by means of which the shoe
 h is secured to the bolt. A serrated bar g is
located inside of said bolt, pivotally sup-
ported at the lower end thereof, and has its
55 serrated face presented to the slot in the

front side of said bolt. A spring g' presses
this bar toward said slot. The engaging
shoulders c^2 on the casing are adapted in size
to fit and slide in the slot in the front side of
the bolt to engage with the serrations on the
60 bar g . This bar is provided with a stop g^2 at
its top to limit the downward movement in
the casing.

A shoe h is mounted in the foot-piece and
is adapted for relative movement with re-
65 spect to said foot-piece and bolt, being nor-
mally pressed out by a spring h' in order that
when the bolt is forced down to bring this
foot-piece into engagement with the floor the
spring will be compressed slightly and so ex-
70 ert a continual pressure of the shoe against
the floor. A spring i connects the bolt with
the casing so that when the serrated bar g is
disengaged from the interlocking shoulder on
the casing the bolt will be returned to its
75 normal position.

I claim as my invention:

1. In an article of the character described
a tubular sheet metal casing, an engaging
shoulder on said casing and projecting into
80 the interior thereof, a tubular sheet metal
bolt fitting within said casing and formed
with a slot in its front side, a serrated bar
pivotally supported in said bolt with its
serrated face opposite said slot and adapted
85 to engage said projection on the interior of
said casing, a spring to normally press said
serrated bar into engagement with said pro-
jection, a tripping lever pivotally supported
in said casing and engaging said serrated
90 bar, a laterally extending foot-piece secured
to said bolt, and a spring to return the bolt
to normal position.

2. In an article of the character described
a tubular sheet metal casing, a projection
95 from said casing extending into the interior
thereof, a tubular sheet metal bolt adapted
to slide in said casing and having a slot on its
front side adapted to receive said projection
from said casing, a serrated bar located with-
100 in said bolt and pivoted to the lower end
thereof with its serrated face opposite said
slot, means for normally pressing said bar
toward said slot and into engagement with
said shoulder on said casing, a laterally ex-
105 tending frame formed integrally with said
bolt at the lower end thereof, a cap fitting
down over said frame and fixedly secured
thereto, a shoe secured in said frame, a trip-
ping lever pivotally supported in said casing
110

in operative relation to said serrated bar, and a spring to return the bolt to normal position.

3. In an article of the character described
 5 a tubular casing formed from sheet metal provided with integral laterally extending attaching flanges, an aperture formed in the front side of said casing, a plate fixedly secured in said aperture, shoulders on said
 10 plate projecting into the interior of said casing, a tubular sheet metal bolt located in said casing and adapted to move lengthwise therein, said bolt having a slot in its front side adapted to receive said plate, a serrated
 15 bar located within said bolt and pivoted at the lower end thereof with its serrated face opposite said slot, a spring pressing said serrated bar into engagement with the projections on said plate, a lever pivotally supported in said casing and extending through
 20 the aperture therein into operative relation with said serrated bar, a spring to return the bolt to normal position, and a foot-piece extending laterally from said bolt comprising
 25 a frame formed integrally with said bolt, a cap fitting about and secured to said frame, and a shoe mounted in the under side of said foot-piece and adapted for movement relatively thereto.

30 4. In an article of the character described a bolt formed up from sheet metal, a laterally

extending foot-piece frame integral therewith, a cap fitting on and secured to said foot-piece frame, a stud secured to and projecting from the under side of said cap, said 35 stud being recessed and threaded, a shoe having a sliding fit in said foot-piece frame, a screw passing through said shoe and engaging said threaded stem, and a spring located between said cap and said shoe, as and for the 40 purposes specified.

5. In an article of the character described a casing, an engaging shoulder on said casing and projecting into the interior thereof, a 45 bolt fitting within said casing and having a slot in its front side, an engaging member pivotally supported in said bolt with its engaging face opposite said slot and adapted to interengage with the shoulder on said casing, a spring to normally press said en- 50 gaging member into engagement with said shoulder, a tripping lever pivotally supported in said casing and having one end in operative relation to said engaging member, a laterally extending foot-piece secured to said 55 bolt, and a spring to return the bolt to normal position.

JACOB P. HOLTZHOUSER.

Witnesses:

OLIVER H. NICHOLLS,
 ERNEST W. PELTON.