

No. 702,095.

Patented June 10, 1902.

I. I. FONDA.
ELEVATOR GUARD.

(Application filed Dec. 18, 1900.)

(No Model.)

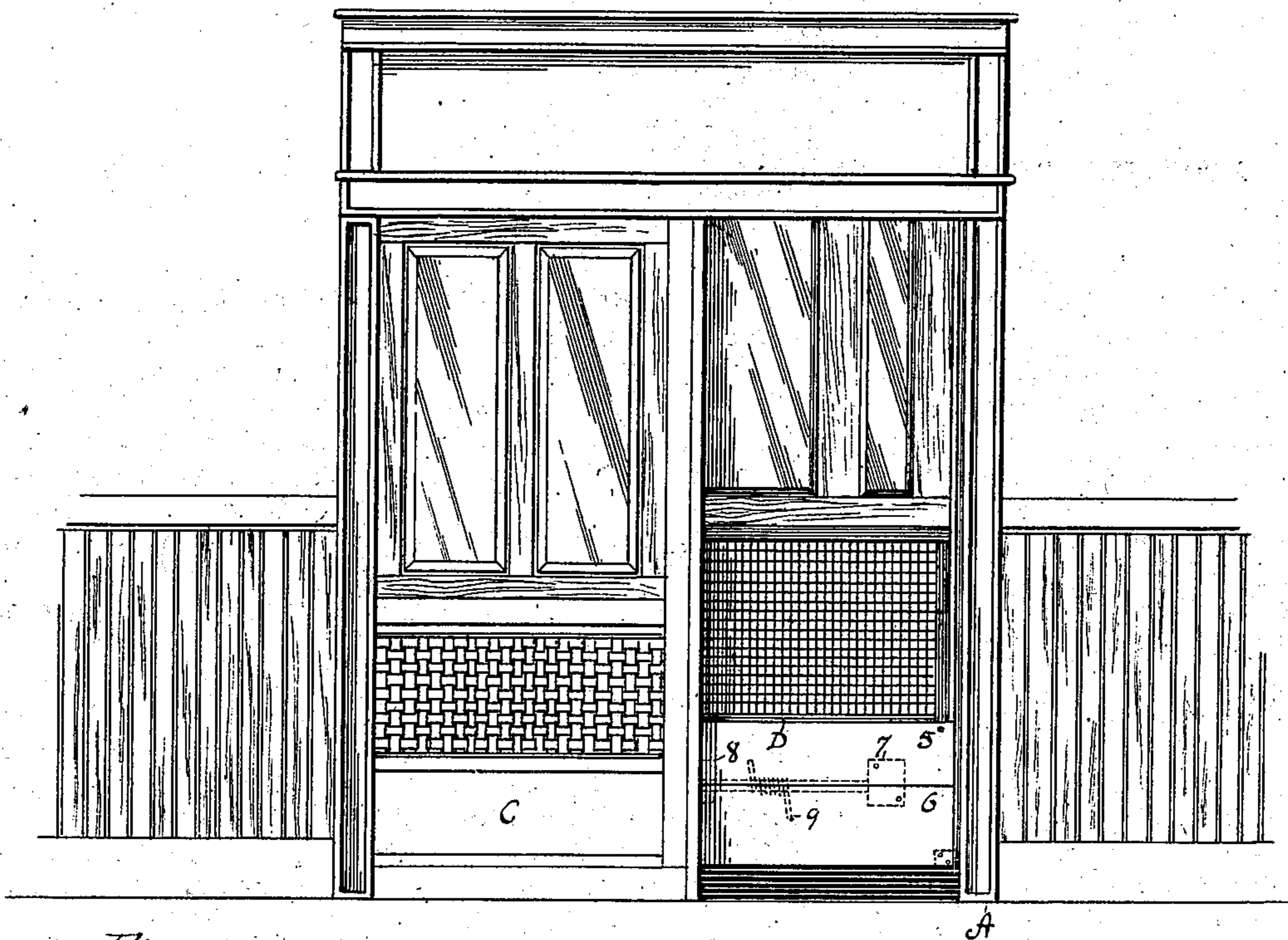


Fig. 1.

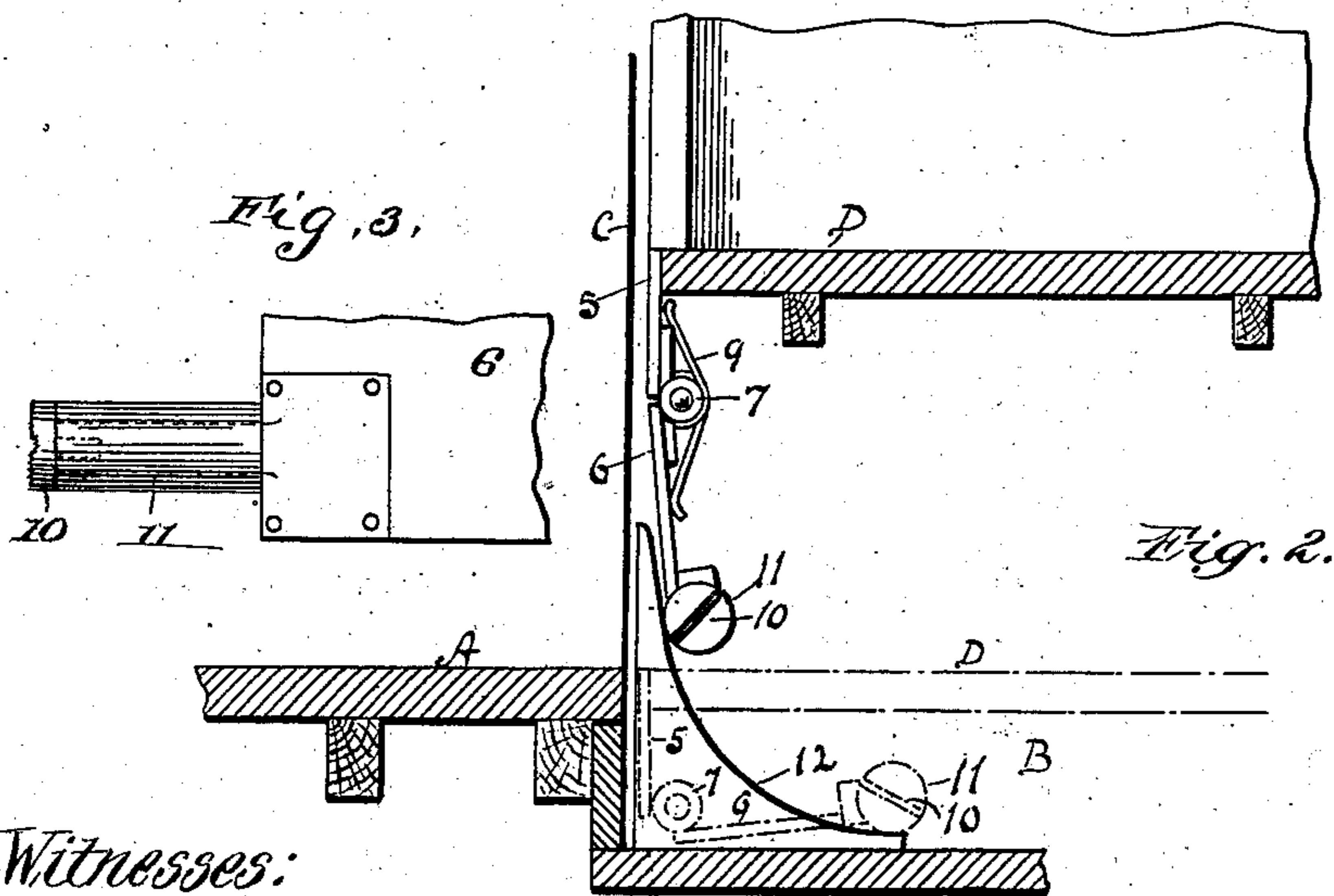


Fig. 3.

Fig. 2.

Witnesses:

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Inventor:

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UNITED STATES PATENT OFFICE.

ISAAC I. FONDA, OF HOPEDALE, MASSACHUSETTS.

ELEVATOR-GUARD.

SPECIFICATION forming part of Letters Patent No. 702,095, dated June 10, 1902.

Application filed December 18, 1900. Serial No. 40,290. (No model.)

To all whom it may concern:

Be it known that I, ISAAC I. FONDA, a citizen of the United States, residing at Hope-
dale, in the county of Worcester and State of
5 Massachusetts, have invented a certain new
and useful Improvement in Elevator-Guards,
of which the following is a specification, ref-
erence being had therein to the accompanying
drawings.

10 This invention has reference to improve-
ments in elevator-car guards or devices for
preventing the accidental catching of the pas-
senger's foot beneath the elevator-floor when
the elevator-car floor is above the building-
15 floor.

One object of the invention is to so construct
an elevator-car guard that while providing a
barrier to the accidental insertion of the foot
beneath the elevator-car the guard may be
20 received in a space but little below the lower
floor of the building.

Another object of the invention is to im-
prove the general construction of the elevator-
car guard.

25 The invention consists in such peculiar fea-
tures of construction and novel combination
of parts as shall hereinafter be more fully de-
scribed, and pointed out in the claim.

Figure 1 represents in front elevation por-
30 tions of an elevator well and car showing the
improved elevator-guard. Fig. 2 represents
an enlarged sectional view of portions of the
same, more clearly illustrating the construc-
tion of the guard and its operation. Fig. 3
35 represents a detail view of portions of the
guard and the sleeve journaled on an exten-
sion thereof.

Similar characters of reference designate
corresponding parts throughout.

40 By reason of careless operation of an ele-
vator it often happens that the floor of the ele-
vator-car is located above the building-floor,
leaving a space therebetween into which the
foot of a passenger hurriedly entering the car
45 may be accidentally caught. Where the pas-
senger seeks to enter the car at or about the
time of starting and the power is reversed by
the operator, the foot caught beneath the car
would be crushed against the fixed threshold
50 or the wall of the elevator-well. To guard
against such accidents, the space immediately
beneath the entrance-door of the elevator-car

should be closed by a barrier to prevent acci-
dental entrance thereto. As this barrier de-
pends for a considerable distance below the
55 floor of the car, it is evident that provision for
the reception of the same is necessary when
the elevator-car is opposite the lowest floor of
a building, and particularly when the ele-
vator-well extends but a few inches below 60
this floor.

In carrying my invention into practice it
has been my object to provide a guard which
being secured to the front portion of an ele-
vator-car would extend downward sufficiently 65
to close a considerable space therebeneath
and would accommodate itself to the depth of
the elevator-well below the lowest floor of the
building when such depth of the well was con-
siderably less than the vertical dimensions of 70
the barrier.

In the drawings, A represents the lowest
floor of a building provided with an elevator-
well B, which extends but slightly below said
floor. C is the front grill or frame of the ele- 75
vator-well, and D the floor of the elevator-
car. To the entrance portion of the car-floor
D is secured the depending plate 5, which
may have a bent-over portion resting on the
floor to form a tread, and to this plate 5 is 80
hinged the extension-plate 6 by means of the
hinges 7 and 8, the spring 9 being mounted
on the spindle of such hinges or in any other
suitable manner and bearing on said plates
to continually exert a pressure to swing the 85
extension-plate 6 into vertical alinement with
the plate 5. At the lower side portion of the
plate 6 is secured the stud 10, on which is
journaled the sleeve 11, and at the lower por-
tion of the elevator-well is mounted the cam 90
or way 12, positioned to intercept the sleeve
11 and direct the same out of its normal ver-
tical path, so that the extension-plate 6 may
be swung out of alinement with the plate 5 to
occupy a lateral position in this well, which 95
would not be sufficiently deep to accommo-
date the same if it were a rigid extension of
the plate 5.

It is obvious that various modifications of
this construction would equally well illustrate 100
this invention, and it is not my intention to
limit myself to the exact construction herein
shown, but to the invention set forth in the
specification and claim.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

The combination with the floor D, the depending plate 5 rigidly secured to said floor at the entrance portion thereof, the plate 6 hinged to said plate 5, the hinges 7 and 8, the spring 9 mounted on the spindle of said hinges and tending to swing the plate 6 into alignment with the plate 5, and the stud 10 secured to the lower portion of the plate 6 and fur-

nished with the sleeve 11, of the cam or way 12 positioned to intercept the sleeve 11 and direct the same out of its vertical path, as and for the purpose described.

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

ISAAC I. FONDA.

Witnesses:

CARL H. FRENCH,
FRANK. H. FRENCH.