

S. W. MURRAY.
STAKE FOR RAILWAY CARS.
APPLICATION FILED JUNE 5, 1908.

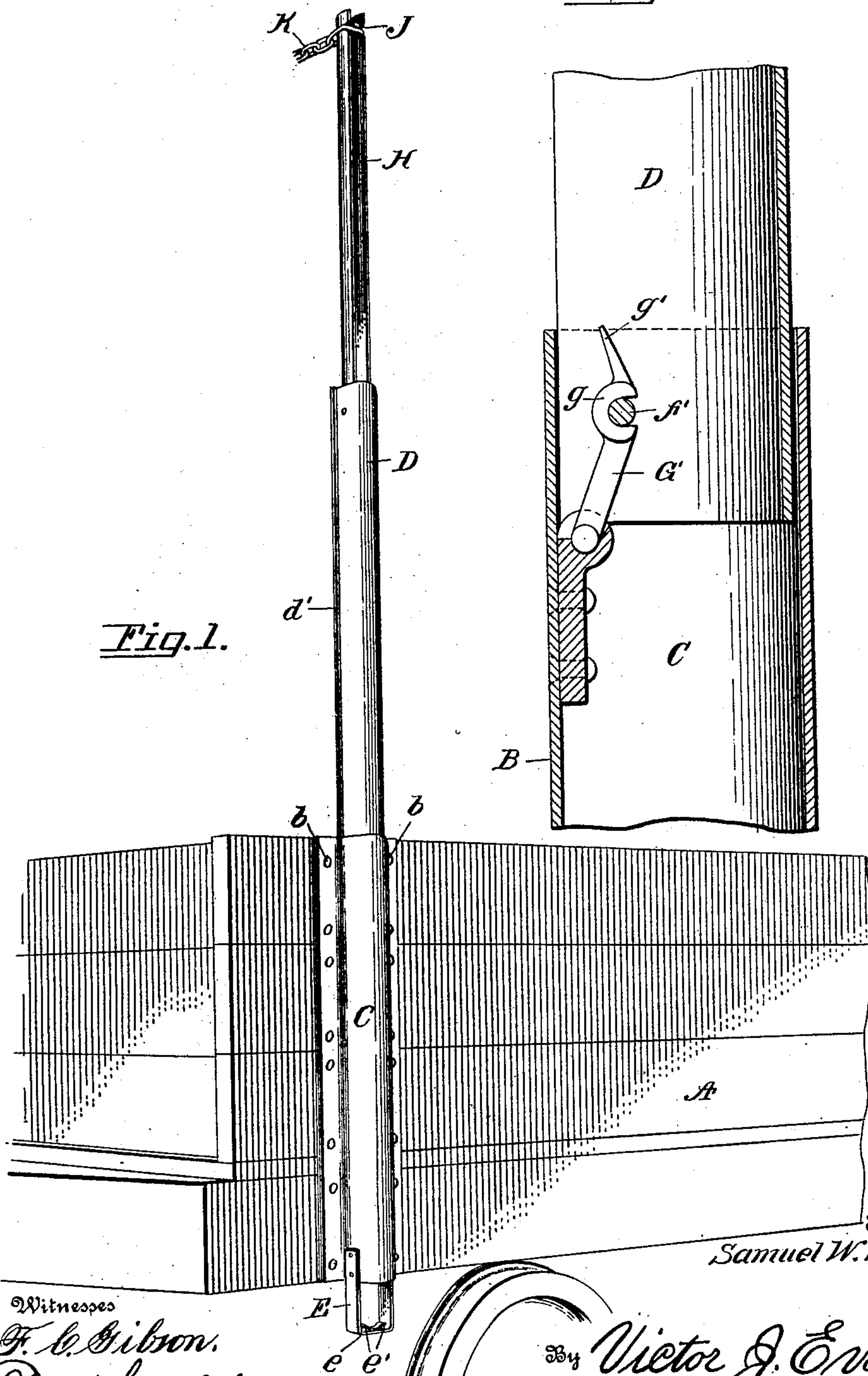
912,149.

Patented Feb. 9, 1909.

2 SHEETS—SHEET 1.

Fig. 6.

Fig. 1.



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Witnesses
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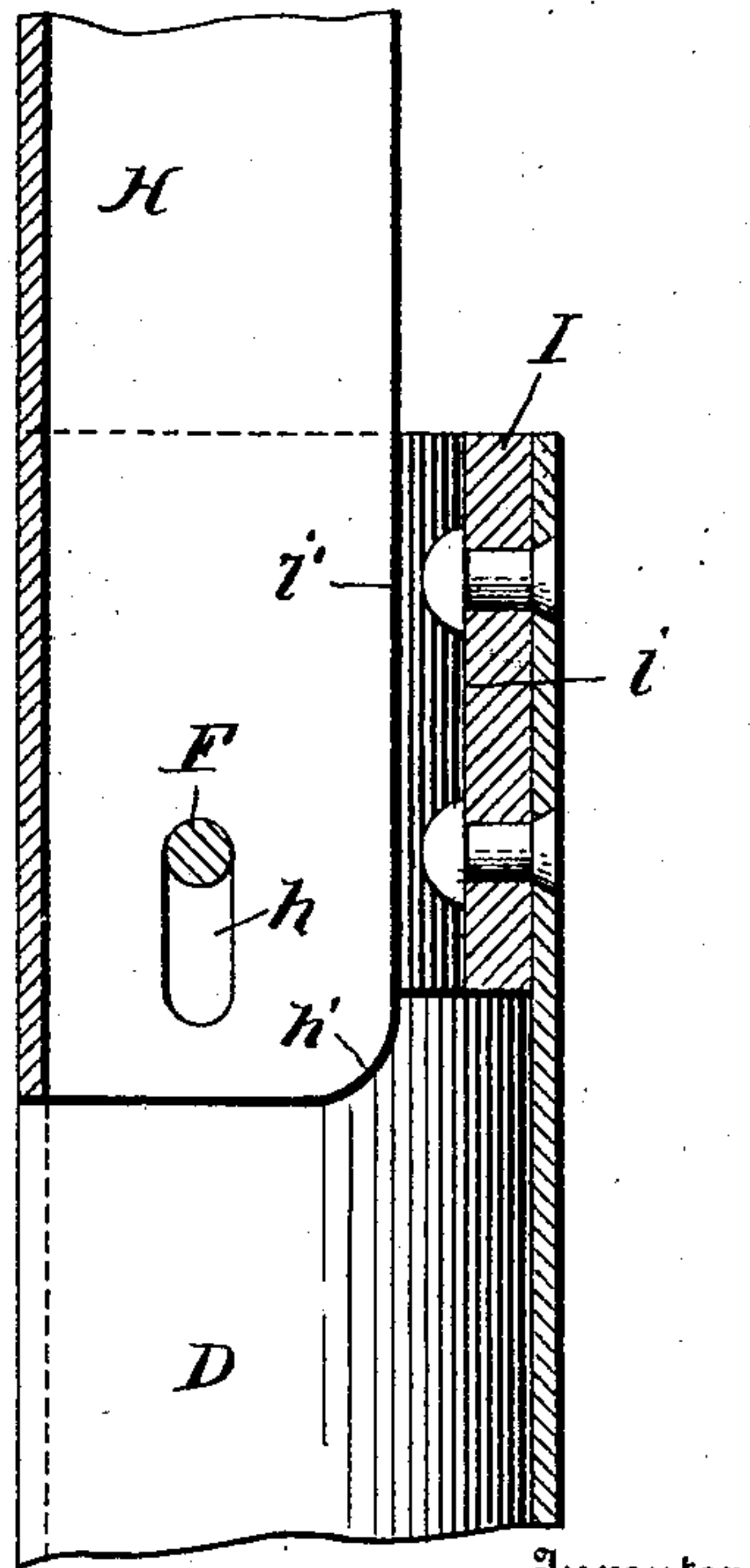
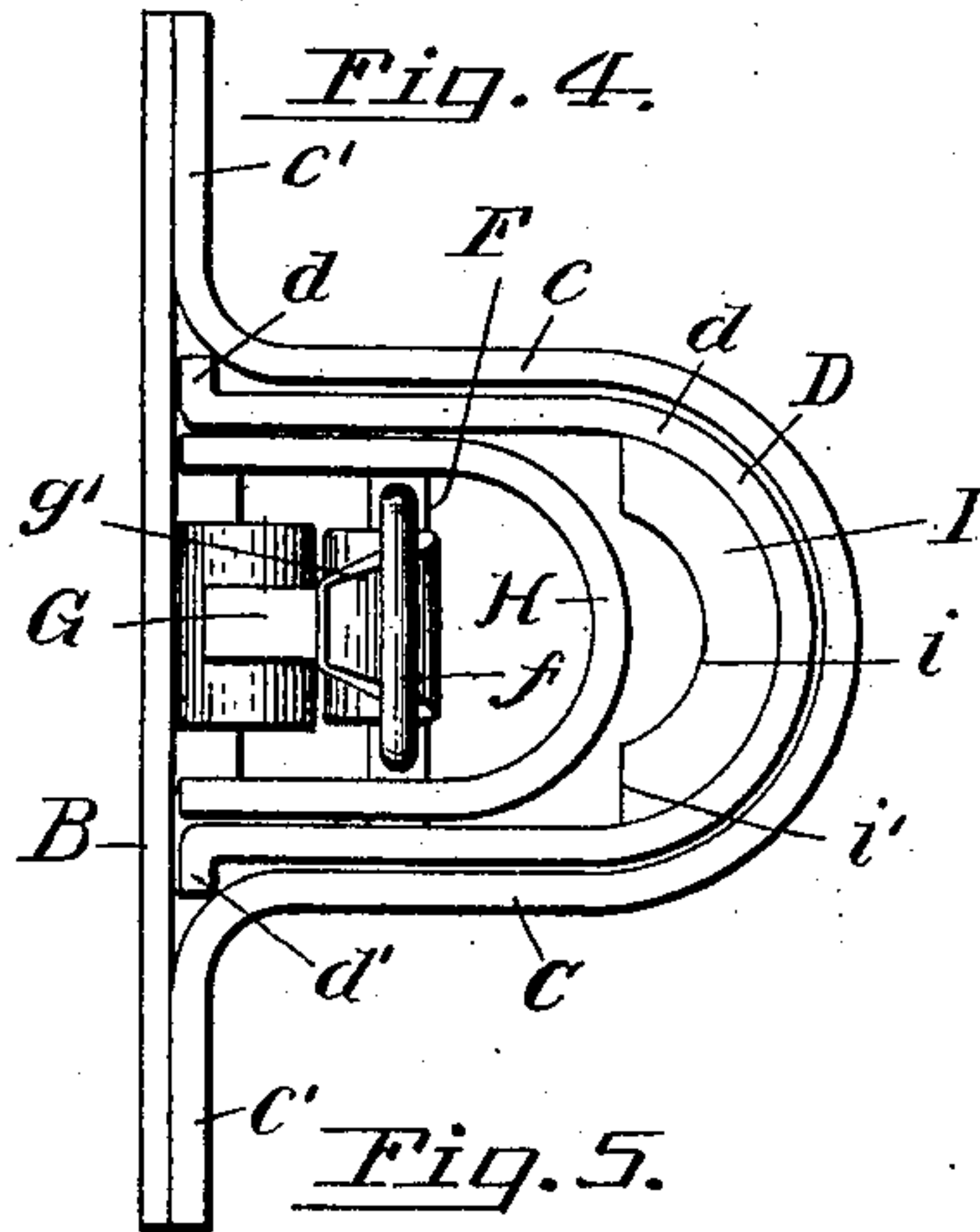
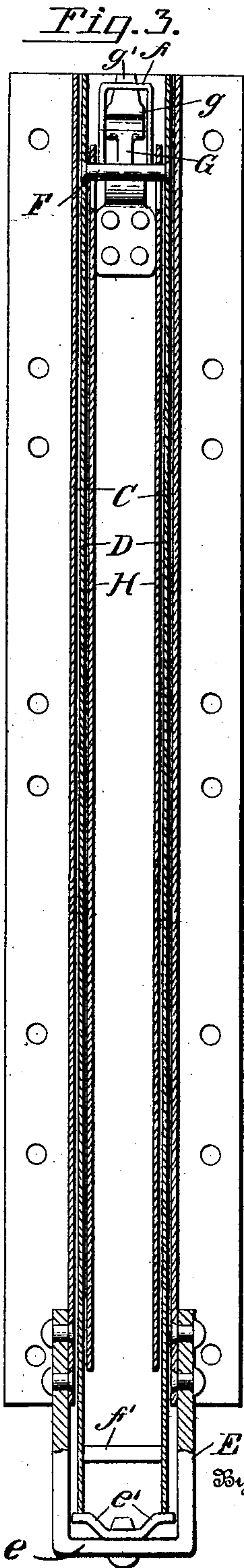
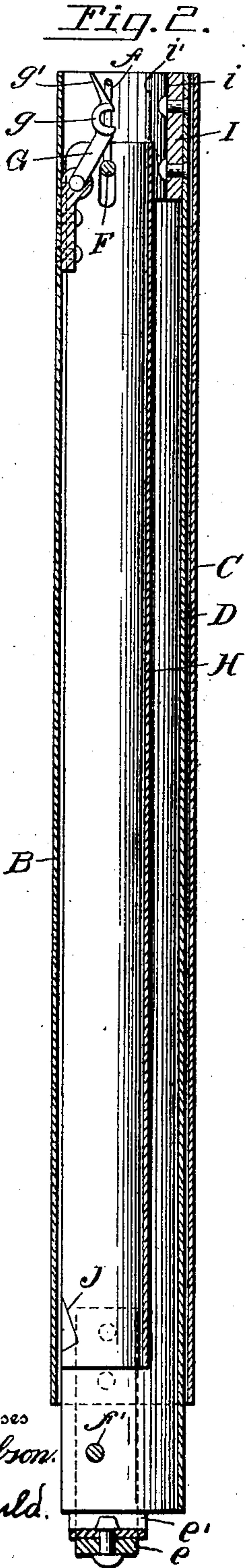
By Victor J. Evans
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

SAMUEL W. MURRAY, OF MILTON, PENNSYLVANIA.

STAKE FOR RAILWAY-CARS.

No. 912,149.

Specification of Letters Patent.

Patented Feb. 9, 1909.

Application filed June 5, 1908. Serial No. 436,909.

To all whom it may concern:

Be it known that I, SAMUEL W. MURRAY, a citizen of the United States of America, residing at Milton, in the county of Northum-
berland and State of Pennsylvania, have in-
vented new and useful Improvements in
Stakes for Railway-Cars, of which the follow-
ing is a specification.

The invention relates to an improvement
in car standards, and is particularly directed
to an extensible standard or stake having
fixed connection with the car and arranged
for convenient operation to extend the stake
above the car body as desired.

The main object of the present invention
is the provision of a car standard or stake in-
cluding a series of telescopically connected
sections, one of which is arranged for perma-
nent connection to the car body, the remain-
ing section being arranged for movable con-
nection relative to the fixed section, whereby
the sections may be relatively extended to
provide a standard to support the load above
the car body, while the sections may be rela-
tively collapsed and housed within the fixed
section to avoid obstruction when not de-
sired for use.

The invention will be described in the fol-
lowing specification, reference being had par-
ticularly to the accompanying drawings, in
which:—

Figure 1 is a perspective view of a portion
of a car, my improved standard being shown
in applied and extended position. Fig. 2 is an
enlarged longitudinal section of the improved
standard. Fig. 3 is a similar view taken at
right angles to the line of section of Fig. 2.
Fig. 4 is a top plan of the same. Fig. 5 is a
broken enlarged sectional view showing the
upper section arranged in extended form rela-
tive to the intermediate section. Fig. 6 is a
similar view, showing the means for support-
ing the intermediate section in elevated or
extended position relative to the base section.

In the accompanying drawings, wherein is
shown the preferred details of construction
of my improved car standard, the standard is
adapted for application in any desired num-
ber to the side of a car A, which car, as illus-
trated, is intended to represent any style or
type of car with which standards may be
used.

In the preferred details of standard illus-
trated, B represents a base plate, preferably
of rectangular form, designed to rest squarely
against the side of the car body. Secured to

the base plate is the lower or housing mem-
ber of the standard, as C, which member is
formed of a single sheet of metal bent into ap-
proximately U-form, as at *c*, the free edges of
which are bent laterally and outwardly to
provide flange *c'*, which are designed to rest
squarely on the base plate B and to be se-
cured thereto through the medium of bolts *b*,
which bolts preferably extend through the
material of the car body and serve to secure
the housing member and base plate to each
other and to the body.

Within the housing member C is arranged
the second or intermediate member D of the
standard, which member is also preferably
constructed of a single sheet of metal bent
into U-form, as at *d*, and having its free edges
extended laterally to form guide flanges *d'*.
The intermediate member is of greater
length than the housing member and is sup-
ported when in inoperative position within
the housing member by a hanger bar E, of U-
shape, depending below the housing member
and secured thereto, the cross piece *e* of the
hanger bar being disposed transverse and
below the housing member and provided
with a spring buffer *e'* to receive the impact
of the edges of the intermediate member and
also to support the intermediate member in
proper position within the housing member.

The intermediate member D is arranged
for sliding movement within and relative to
the housing member, the rounded portions
of these members being arranged in juxta-
position, the guide flanges *d'* of the inter-
mediate member being disposed between the
base plate B and the curved portions of the
housing member connecting the side walls of
said member and the flanges *c'*, whereby
the intermediate member is freely slidable
within the housing member and is guided
during such movement.

Secured transverse the intermediate mem-
ber, near the upper end of the same is a sup-
porting pin F, to which, within the plane of
the intermediate member, is secured a loop-
form handle *f*, for a purpose which will pres-
ently appear. A cross bar *f'* is secured trans-
verse the intermediate member adjacent the
lower end of the latter, and pivotally se-
cured on the base plate B, within the plane of
the intermediate member D and near the
upper end of the latter is a gravity latch G
formed with a semicylindrical keeper section
g, of a form to engage the cross bar *f'*, the
latch above the keeper section having an in-

clined finger piece g' , for convenient operation of the latch member in releasing the parts.

Within the intermediate member D is arranged a third standard member H, hereinafter termed the upper member. The member H is also constructed of a single strip of sheet metal formed into approximately U-shape and of a size to slidably fit within the intermediate member D. The opposing side walls of the upper member H are formed near their upper ends with longitudinally disposed slots h designed to engage the supporting pin F, this connection permitting a limited independent longitudinal movement of the upper member H relative to the intermediate member D.

The upper member is arranged within the intermediate member so that the rounded portions of said members are adjacent, the upper member being of such dimensions, however, that the rounded portion thereof will, when the members are in assembled relation, be spaced a greater distance from the rounded portion of the intermediate member than the distance between the rounded portions of the intermediate and housing members. Secured on the inner surface of the rounded portion of the intermediate member, at the upper end of said member, is a stop block I, of approximately semicircular contour in section and of appropriate length. The central portion of the stop block is longitudinally cored on a plane concentric with the outer surface of the block, the central recess i thus provided permitting free movement of the upper member without interference, the square edges i' of the block forming abutments, for a purpose which will presently appear. The free edges of the upper member, adjacent their lower ends, are formed with transversely aligned notches J to provide for the reception of a retaining strap or chain for securing the load in place on the car after extension of the standard sections.

With the parts constructed and arranged as described, and the standard members in collapsed relation, in which positions they are disposed within the housing member C, the operation of my improved car standard is as follows: The operator by drawing upon the handle f will elevate the intermediate member D, carrying with it the upper member H through the pin and slot connection, the movement being continued until the cross bar f' engages the keeper section g in the latch G, when the intermediate section may be locked in elevated position. The upper section is then swung on the supporting pin F as a pivot, the lower end of the upper member being by this movement arranged uppermost when the section is fully extended. The swinging movement of the upper member is, of course permitted

through the open side of the intermediate member, it being understood that after the upper member is moved into operative position it is moved downward on the pivot pin F, the length of the slot h , by which movement the free edges of the upper member are caused to engage the abutment edges i' of the stop block I. The parts are returned to normal positions by obvious reversal of the above described operation, it being noted that the normally upper ends of the free edges of the upper member are rounded at h' to permit the necessary movement of the upper member on the pivot pin, without interfering with the stop block. After returning the upper member to normal position within the intermediate member, the latch member G is manually operated to release the intermediate member, whereupon said intermediate member and connected upper member gravitate to normal position within the housing member.

When in the elevated or extended position the notches J of the upper member are arranged in the relatively outer surface or edge of the member, in position to receive and retain the eye terminal of a retaining strap or chain K, the opposite end of which is similarly connected to the opposing car standard.

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

1. A railway car standard comprising a housing member, an intermediate member arranged for telescopic movement relative to the housing member, means for automatically locking the intermediate member in extended relation to the housing member, and an upper member movably connected to the intermediate member.

2. A railway car standard comprising a housing member, an intermediate member arranged for telescopic movement relative to and adapted to be normally inclosed within the housing member, and an upper member pivotally connected to the intermediate member and adapted to be normally housed within said intermediate member.

3. A railway car standard comprising a plurality of members, each of said members being constructed of a single sheet of material and of approximately U-form in section, said members being respectively nested in normal positions.

4. A railway car standard comprising a U-shaped housing member, a U-shaped intermediate member normally arranged within the housing member, a base plate closing the opening of the housing member, and guide flanges carried by the intermediate member and disposed between the housing member and the base plate.

5. A railway car standard comprising a base plate adapted to be connected to a car, a housing member adapted to be connected to the base plate, an intermediate member

slidably mounted within the housing member, and an upper member movably mounted within the intermediate member, said intermediate member being of greater length than the housing member, and a hanger bar depending from the housing member to receive and support the intermediate member.

6. A railway car standard comprising a housing member arranged to be fixed to the car, an intermediate member having telescopic relation with the housing member, means for securing the intermediate member in elevated position relative to the housing member, and an upper member pivotally connected to the intermediate member and normally housed within said intermediate member.

7. A railway car standard comprising a housing member arranged to be fixed to the car, an intermediate member having telescopic relation with the housing member, means for securing the intermediate member in elevated position relative to the housing member, an upper member pivotally connected to the intermediate member and normally housed within said intermediate member, and a stop block carried by the intermediate member to maintain the upper member in elevated position.

8. The combination with a car, of a car standard comprising a housing member secured to the side of the car, an intermediate member mounted for telescopic movement in the housing member and being open throughout its length on the side next the car, and an upper member pivotally connected to the intermediate member and movable through the open side of the latter, the open side of the intermediate member being closed by the car body to prevent movement of the upper member when the parts are in normal positions.

9. A railway car standard comprising a housing member, an intermediate member arranged for telescopic movement relative to the housing member, an upper member pivotally connected to the intermediate member, and means fixed to the intermediate member to engage the upper member when the latter is in elevated position and prevent movement of such upper member on its pivotal connection.

10. A railway car standard comprising a housing member, an intermediate member arranged for movement relative to the housing member and being open at one side, and an upper member pivotally connected to the intermediate member and movable through the open side of the latter, said upper member being open on one side and pivoted so as to dispose said open side in opposition to the open side of the intermediate member when the parts are extended.

11. A car standard comprising a housing member, an intermediate member movable relative to the housing member, an upper member pivotally connected with the intermediate member, and a stop block carried by the intermediate member to engage and prevent movement of the upper member when the latter is in operative position, said upper member being formed for limited independent longitudinal movement relative to the intermediate member to permit operation of the upper member to avoid engagement with the stop block in the pivotal movement of said upper member.

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

SAMUEL W. MURRAY.

Witnesses:

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