

1,060,756.

Patented May 6, 1913.

2 SHEETS—SHEET 1.



Joseph Q. Lewis
Cleaner & Wash.

Fig. 1

INVENTOR

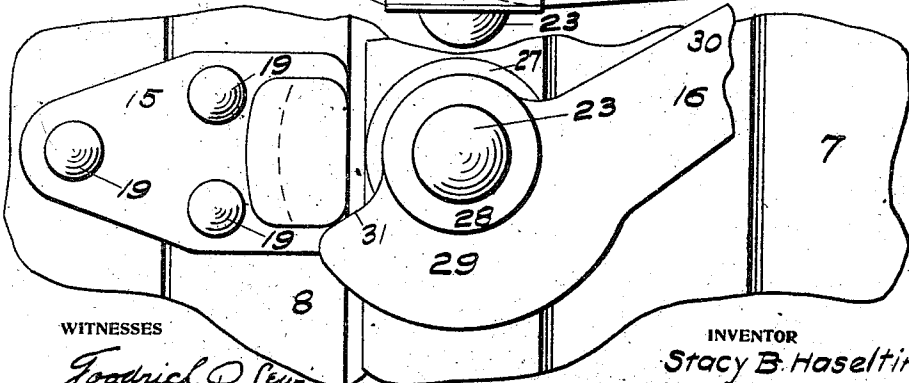
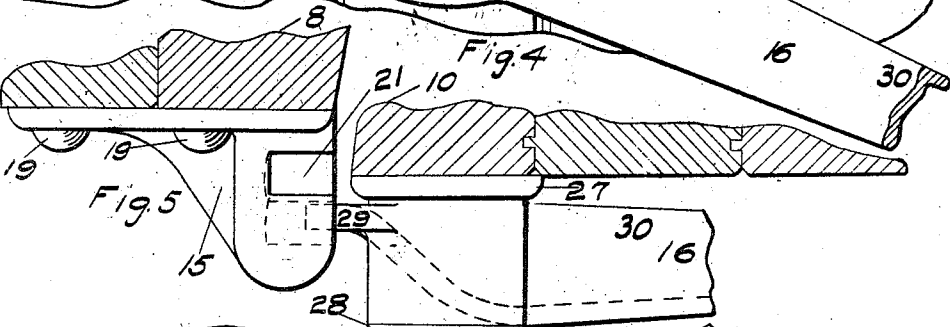
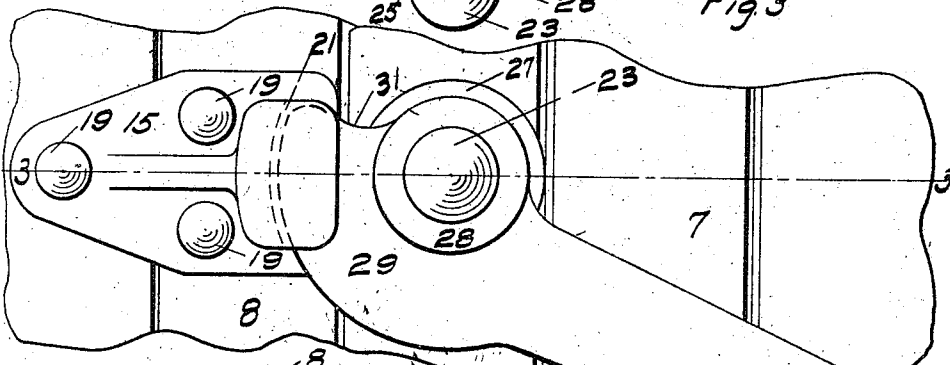
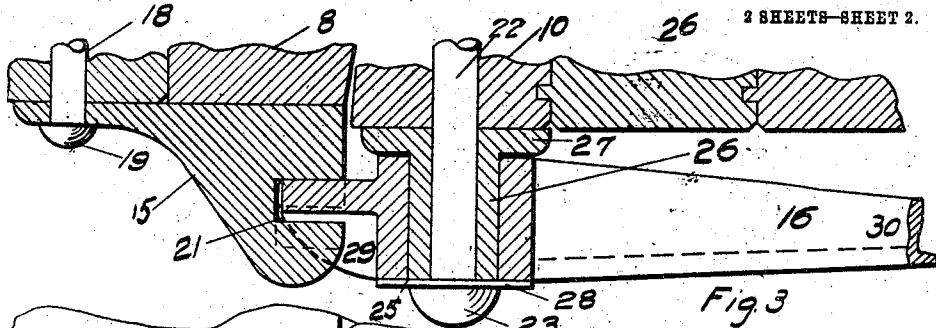
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S. B. HASELTINE.
 HEATER DOOR FASTENER.
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1,060,756.

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2 SHEETS-SHEET 2.



WITNESSES

Godrich Q. Lewis
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Fig. 6

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UNITED STATES PATENT OFFICE.

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HEATER-DOOR FASTENER.

1,060,756.

Specification of Letters Patent.

Patented May 6, 1913.

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To all whom it may concern:

Be it known that I, STACY B. HASELTINE, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Heater-Door Fasteners, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to heater door fasteners.

One of the objects of my invention is to provide a fastener for heater doors of railroad refrigerator cars and other doors, of cheap manufacture, and easy application and operation.

Another object is to provide a door fastener that will securely fasten a door, and be of assistance in tightly closing the same.

It will, of course, be understood that in the detailed description that will follow I am merely setting forth what I at present conceive to be the preferred embodiment of my invention, and I wish it understood that I do not limit myself to such embodiment, as it is readily apparent that the features of my invention may be applicable to a variety of uses and different forms of apparatus. I will, however, describe herein a specific form which my invention would take in connection with the accompanying drawings, in which—

Figure 1 is an elevation showing a heater door fastener embodying my invention applied to a refrigerator car heater door. Fig. 2 is a sectional view through the heater door when closed and locked, and a plan view of the fastener. Fig. 3 is a sectional view of the fastener on line 3—3 of Fig. 4 showing the door being opened by the upward movement of the handle of the fastener. Fig. 4 is an elevation of the fastener showing the position of the handle as the heater door is being opened. Fig. 5 is a plan view of the fastener showing the heater door in position so that the fastener can engage and close the door by a downward movement of the handle. Fig. 6 is an elevation of the fastener showing the position of the handle when the door is about to be closed.

In the drawings 7 represents an ordinary refrigerator heater door of usual construction, though it will be apparent that any ordinary form of door may be used.

8 is a door post.

9, 9, are door stiles, 10 the outer door sheathing, and 11 the inner door sheathing.

12, 12 are door hinges fastened to the door 7 by means, preferably screws 13, and also 60 similarly fastened to the door post 8.

14 is my door fastener in which the member 15 is a keeper, the member 16 a handle or lever, and the member 17 a bar for securing the handle 16 when the door 7 is in 65 a closed position. The keeper 15 is preferably attached to the door post opposite the unhinged side of the door 7 by means, preferably bolts 18, provided with a head 19 and a nut 20. The keeper 15 is provided with a slot 21 opening toward the 70 door 7 for receiving a portion of the handle 16 hereinafter described. The handle or lever 16 is secured to the door 7 by means, preferably the bolt 22, provided at its outer 75 end with a head 23, and its inner end with a screw thread and nut 24. The said lever is provided with a perforation 25 through which in preferable construction the thimble 26 is passed, the said thimble being provided at its inner end with a flange 27 80 extending around the means, preferably the bolt 22, and acts as a washer between the said door 7 and the lever handle 16.

In preferable construction the bolt 22 is 85 provided with a washer 28 at its head, and the said bolt 22 passes through said washer and thimble 26 and through the door 7, thereby providing a bearing upon which the said lever 16 may be turned. The lever 90 or handle 16 is provided near the end of its attachment to the door with a worm like blade 29, the helix of the worm being arranged so that when the shaft 30 of the lever 16 is raised the end 31 of the blade 29 95 will engage within the slot 21 when the door 7 is partially opened, as illustrated in Fig. 5. The slot 21 is preferably inclined inwardly in its direction from the lower portion of the same so as to permit a substantially 100 perfect engagement between the outer side of the said slot 21 and the blade 29 of the lever 16. The outer end of the shaft 30 of the lever 16 is preferably provided with an outwardly turned flange 32, which is 105 preferably provided with a perforation 33. The bar 17 is preferably placed along a portion of the arc described by the end of the shaft 30, being secured to the door 7 by means, preferably the screws 34, the said bar 110

having along its length an outwardly projecting flange or rib 35, provided with perforations 36; and so arranged that the end of the shaft 30 may be secured to the said bar 17 by means, preferably the padlock 37, passed through the perforation 33 of the flange 32, and one of the perforations 36 of the flange or rib 35.

From the foregoing description the advantages of my improved structure will be apparent in that tightly fitting doors, such as heater doors of railroad refrigerator cars, may be easily and tightly closed and securely fastened.

I claim:

1. A door fastener comprising a slotted keeper, a lever, a ribbed bar and means of securing said lever to said bar, the said lever being provided at one end with a worm like blade for engagement in the slot of said keeper, and at the other end with a perfo-

rated flange; the rib of said bar being perforated for the reception of the said means to secure the said lever to the said bar.

2. A door fastener comprising a slotted keeper, a perforated lever, a thimble within the perforation of said lever, and means of attachment passing through said thimble, the said lever having a worm like blade for engagement in the slot of said keeper.

3. A door fastener comprising a slotted keeper, a lever and a thimble passing through said lever, the said lever being provided with a worm like flange for engagement in the slot of the keeper, and the said thimble being provided with a flange at its inner end.

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Witnesses:

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