Nov. 18, 1924.

A. RUSH

ELEVATOR SHAFTS MEANS FOR CLOSING DOORS FOR

> Filed Aug. 26, 1922 2 Sheets-Sheet

1,515,621



**** 2. INVENTOR ALBERT RUSH Ly Think Mark Fig.2. Fig.1. ٩.

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INVENTOR ALBERT RUSH Ly Finia Finial his ATTYS.

Patented Nov. 18, 1924.

UNITED STATES PATENT OFFICE.

ALBERT RUSH, OF COLUMBUS, OHIO, ASSIGNOR TO THE KINNEAR MANUFACTURING COMPANY, OF COLUMBUS, OHIO, A CORPORATION OF OHIO.

MEANS FOR CLOSING DOORS FOR ELEVATOR SHAFTS.

Application filed August 26, 1922. Serial No. 584,391.

zen of the United States, residing at Colum- tions of which 17 stand closer to the elebus, in the county of Franklin and State vator doorway while the upper portions 17^a 5 of Ohio, have invented a certain new and are set in away from the door to provide 60 useful Improvement in Means for Closing room for the door when raised. The upper Doors for Elevator Shafts, of which the portions 17^a of the tracks extend above the following is a specification.

10 that is transferred when opened from the on the top of the car. hatchway opening to the car. As the car To the upper ends of the upper portions

novelty being finally claimed.

In the accompanying drawing---

Figure 1 is a vertical sectional view taken normally held in position to support the 75 20^{-} at right angles to the elevator shaft door- weight bar 14 by means of other arms 22 ways and showing one of the doors in raised pivoted on the tracks the latter arms being position. connected by a wire 23 containing one or Fig. 2 is an elevation of the shaft looking more fusible members 24 adapted to be 25 toward a raised door. melted by a dangerous rise of temperature, 80 Fig. 3 is a side view on a larger scale of as for example, that of a nearby fire. Upon the means for supporting the emergency the occurrence of fire the weight 14 is transor supplemental door weight, said weight ferred to the supports 13 on the door. being shown in cross section as in supported In practice, therefore, if a door is open ³⁰ position. as shown in Fig. 1 and the car left by the 85 Fig. 4 is a front view of the same. attendant as shown in that view and a fire Fig. 5 is a similar view showing the occurs the melting of the fusible link will weight support and weight released. permit the weight bar 14 to be dropped onto Fig. 6 is a front view of the same. the brackets 13 and the door thereby closed. In the views 7 designates the elevator As it is impracticable to leave more than one 90 shaft or well and 8 doorways thereto. 9 door open that door will be closed in case of designates vertically moving doors to close fire. said openings. The doors are to be equipped The forms of the parts can be changed with counterbalancing weights 10 connected without departing from the invention as by cables with the door the cable being claimed. 95 passed over sheaves 11 as best seen in Figs. 1 What I claim is: and 2. At its lower end the door is provided 1. In a building, the combination with an with laterally projecting stud shafts elevator shaft provided with doorways and equipped with rollers 12 to travel on tracks doors therefor, of a car movable in said on the car as hereinafter explained. The shaft provided with thermally controlled 100 upper portion of each door is provided at means for closing a door. each side with small brackets 13 adapted to 2. In a building, the combination with receive and support in case of emergency an elevator shaft provided with doorways a weight bar 14 ample to overcome the coun- and doors therefor, of a car movable in said terbalance weights of the door as hereinafter shaft provided with means to receive the 105 50explained. door when at the doorway and thermally 15 designates a portion of the car which controlled means for closing the door. is provided with a hoisting cable 16, as 3. In a building, the combination with an usual, for raising and lowering the car in elevator shaft provided with doorways and the shaft. That side of the car adjacent vertically sliding doors for the same, of a 110

To all whom it may concern: the doorway opening is provided with up-Be it known that I, ALBERT RUSH, a citi- wardly extending bent tracks the lower portop of the car and are suitably braced in that This invention relates to an elevator door position as by inclined rods 18, supported

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is likely to be frequently vacated by the at- 17^a of the tracks and upon suitable brackets tendant and the door left in open position 19 secured to the tracks are pivoted arms 20 the object is to provide means for auto- having their free ends formed with seats 15 matically closing the door in case of fire. 21 adapted to receive the weight bar 14 be- 70 The invention is embodied in the example fore referred to, said weight bar adapted herein shown and described, the features of when added to the door to over-come the counterbalancing weights of the door and close the latter. The pivoted arms 21 are

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any of said doors, said car provided with a car movable in said shaft provided with a weight and thermally controlled means to weight and thermally controlled means to rerelease the weight to close the door when lease said weight to close an open door. the car is standing opposite the door. 4. In a building, the combination with an 6. In a building, the combination with an 20 5 elevator shaft provided with doorways and elevator shaft provided with doorways and vertically sliding doors for the same, of a car movable in said shaft to any of said vertically sliding doors for the same, of a doors, said car provided with a weight and car movable in said shaft to any of said thermally controlled means to release the doors means on the car to receive the door, 10 weight to close the door when the car is said car provided with a weight and ther- 25 mally controlled means to release the weight standing opposite the door. 5. In a building, the combination with an to close the door when the car is standing elevator shaft provided with doorways and opposite the door. counterbalanced vertically sliding doors for ALBERT RUSH. 15 the same, of a car movable in said shaft to ·. ·

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