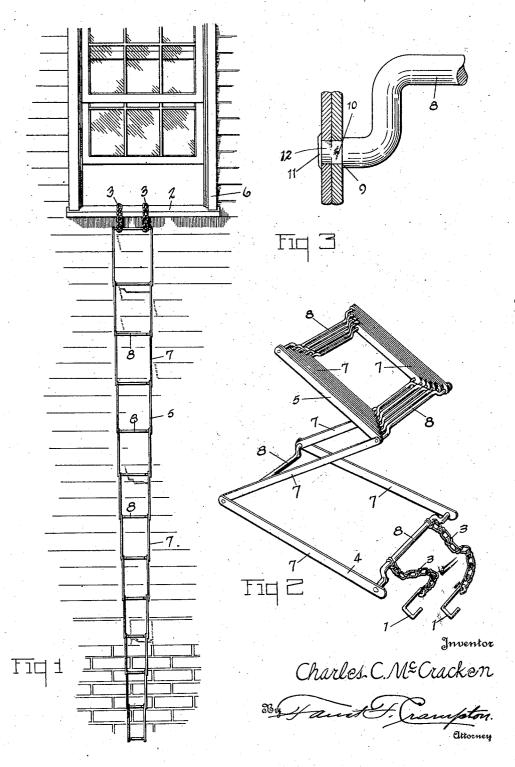
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EMERGENCY LADDER

Filed May 22, 1926



## UNITED STATES PATENT OFFICE.

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EMERGENCY LADDER.

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a folding emergency ladder that when folded ladder from the window frame 6. will occupy a small space and when unfolded will constitute a rigid support for the user. pair of side members 7 and a step or rung 8 formed that they will protrude from the wall of the building whereby the feet of the user may be readily and securely placed on, and his hands may easily grasp the steps or rungs. Also the ladder is so constructed that it will not be moved outward from the the wall at the point that it is grasped by the hands to a material degree nor will the rungs be tilted when supporting the weight 15 of the user of the ladder, notwithstanding the outward projection or location of the rungs. Thus the invention provides a safe

take of different forms. To illustrate a rung is locked to the sides of the frame and practical application of the invention I have is located at the top of the frame, the weight as an example of such structures and shall rung will cause the lower ends of the sides

Figure 1 illustrates a ladder in position for descent. Fig. 2 illustrates a perspective view of the ladder partly unfolded. Fig. 3 is a view of a section through a joint of the stepped on. Also when the rungs are

ladder.

The ladder shown in the drawings is formed of a plurality of connected frame parts and a means is provided for readily connecting the ladder with a sill of the window. The frames are so formed that they 40 will lie one within the other. The larger frame being preferably the top frame when the ladder is located in the position for use. The ladder may be unfolded by merely connecting an end frame to a sill and holding the larger frame horizontally and allowing the other frames to drop. This will cause 50 the sill 2 of the window, the chains 3 being of sufficient length to enable the largest frame 4 of the ladder 5 to be easily held horizontally outside of the window which

My invention has for its object to provide will therefore suspend the upper end of the

Each frame of the ladder is formed of a The steps or rungs of the ladder are so and the frames are joined together by the rungs 8. The step or rung 8 of each frame is secured to the side members 7 so that it cannot turn relative thereto and is moreover located at the top of the frame. Each end of each of the rungs has a shoulder 9 and a car squared portion 10 while the upper end of each side member or bar has a square opening fitting the squared portion which prevents rotation of the step or rung relative to the side members. The step or rung has to two angular bends one at each end which places the body of the rung or step outside emergency ladder that may be readily of the plane of the frame of which it forms utilized in descending along the wall of the building.

The invention may be contained in ladders and gives a "toe hold" on the ladder and a that in the detail of their construction par-ready "grasp" of the rungs. Since each 25 selected a ladder embodying the invention of the body when the foot is placed on the 80 describe it hereinafter. The ladder selected to press against the wall of the building and prevent tilting of the projecting step or the drawing. lower end of the frame, the upper ends of 85 the sides would be tilted outward. Thus the rungs are maintained in their position when grasped the downward pull presses the lower ends of the frame against the wall and because of the length of the sides as compared to the projection of the rung or step, the frame will lie flat against the wall (although it is pulled by the hand at the natural angle as when one is descending or climbing a 25 vertical ladder.

In order that the ladder may be folded each outer end portion of the steps or rungs is provided with a cylindrical part 12 while the lower end of each side member of the 100 frames is provided with an opening that fits the ladder frames to descend and become the cylindrical part 12 and so as to rotate supported by the sill. In the form of con- thereon. Each end of the step or rung 8 is struction shown the hooks 1 are placed over headed as at 11 to rotatably secure the lower ends of the side members of the frames in 105 position.

I claim:

In an emergency ladder, a plurality of will permit the other frames of the ladder frames, each frame formed of side bars and 55 to drop towards the ground. The chains a step, the step being formed of a bar hav- 110

ing end portions bent at two right angles to bars, the lower ends of the side bars having project the body of the step outside of the plane of the side bars, each end of the step having a cylindrical portion and a portion other than cylindrical, the upper ends of the side bars connected to the step having openings for fitting the portions other than cylindrical for locking the step to the side

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cylindrical openings fitting the cylindrical 10 portions of the step of the adjoining frame, the ends of the steps riveted over the ends of the side bars of adjoining frames.

In testimony whereof I have hereunto signed my name to this specification.

CHARLES C. McCRACKEN.