

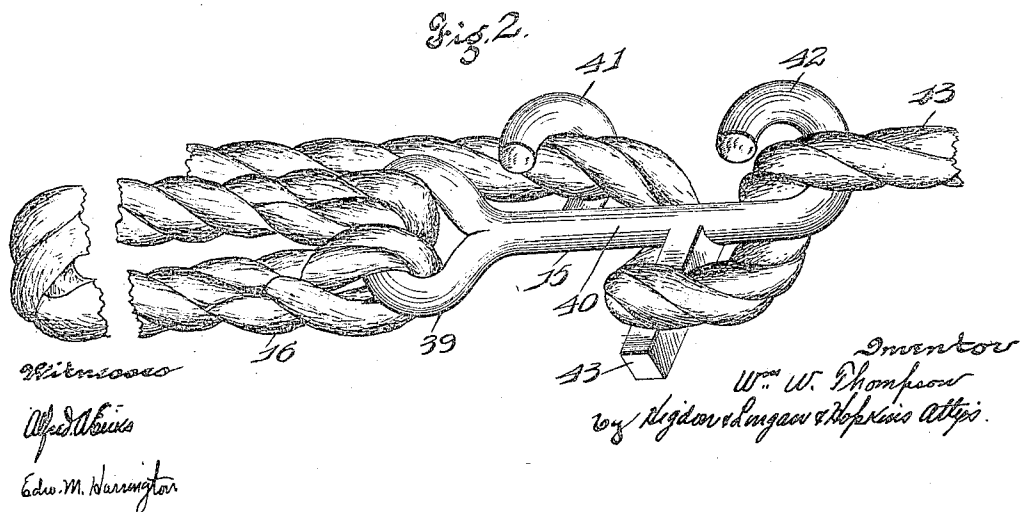
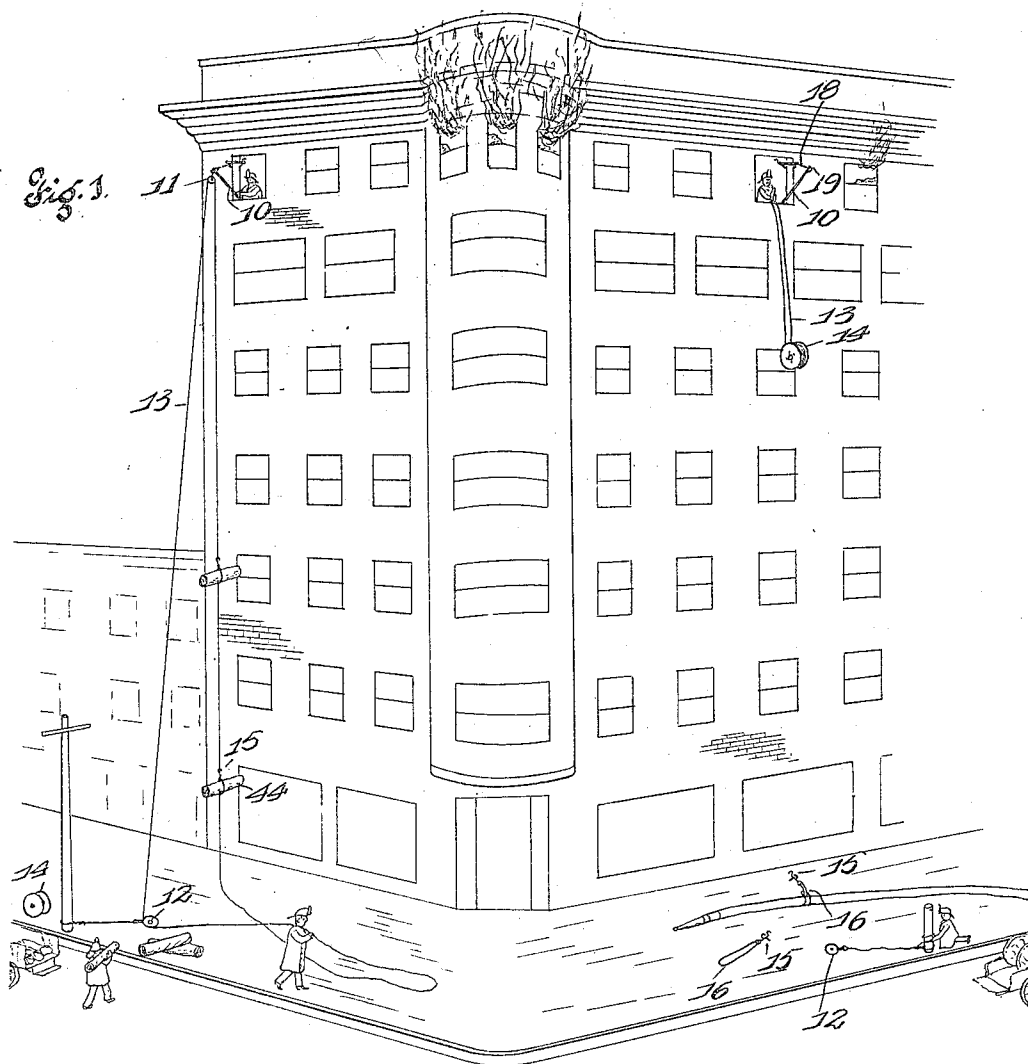
No. 808,587.

PATENTED DEC. 26, 1905.

W. W. THOMPSON.
FIRE FIGHTER'S APPARATUS.

APPLICATION FILED OCT. 10, 1904.

3 SHEETS—SHEET 1.



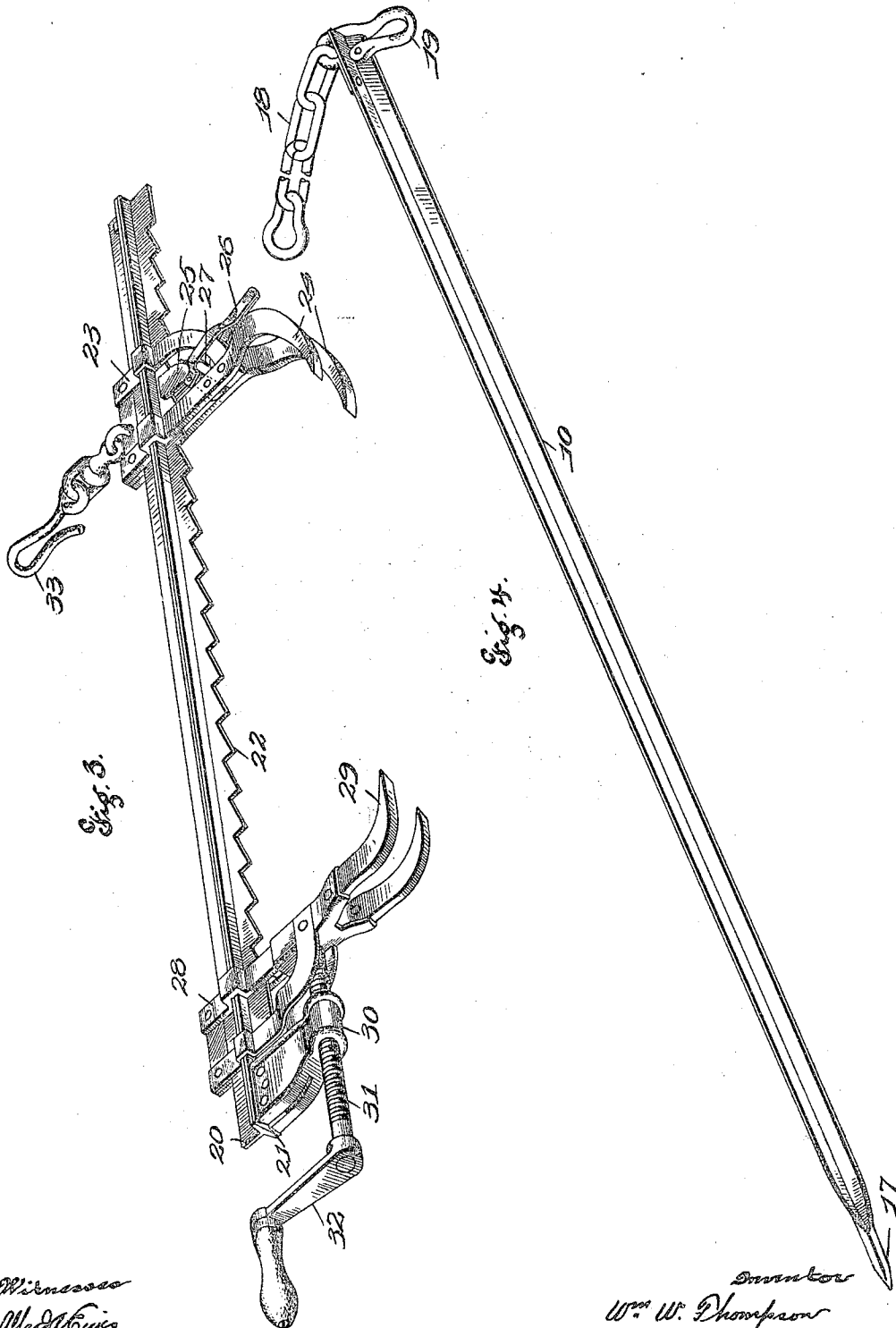
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3 SHEETS—SHEET 2.



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3 SHEETS—SHEET 3.

Fig. 5.

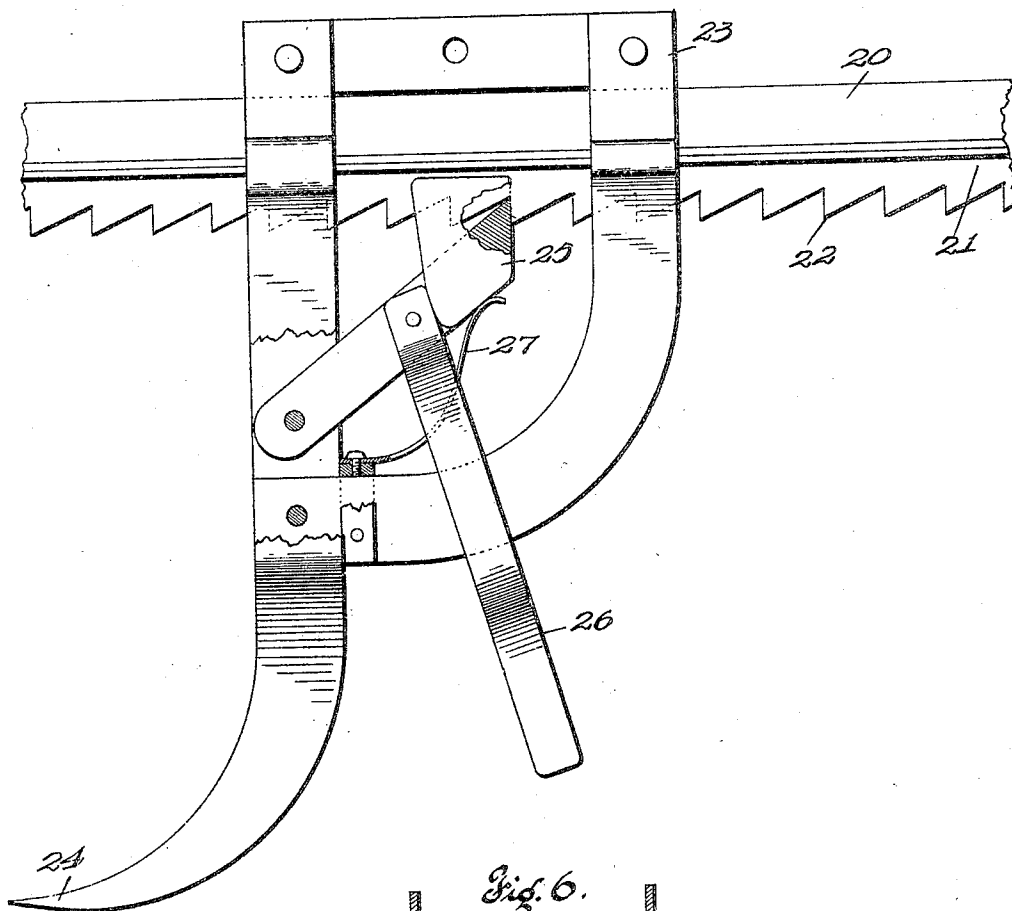
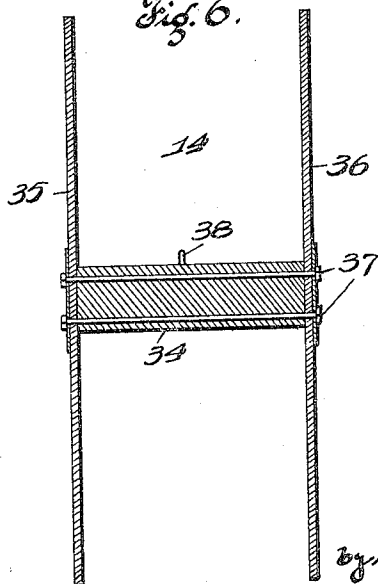


Fig. 6.



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UNITED STATES PATENT OFFICE.

WILLIAM W. THOMPSON, OF ST. LOUIS, MISSOURI.

FIRE-FIGHTER'S APPARATUS.

No. 808,587.

Specification of Letters Patent.

Patented Dec. 26, 1905.

Application filed October 10, 1904. Serial No. 227,949.

To all whom it may concern:

Be it known that I, WILLIAM W. THOMPSON, a citizen of the United States, and a resident of St. Louis, Missouri, have invented certain new and useful Improvements in Fire-Fighters' Apparatus, of which the following is a specification containing a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in fire-fighters' apparatus; and it consists of the novel features herein shown, described, and claimed.

In the drawings, Figure 1 is a perspective illustrating a burning building and the use of my improved fire-fighters' apparatus. Fig. 2 is a perspective, upon an enlarged scale, showing the grappling-hook and its use. Fig. 3 is a perspective, upon an enlarged scale, of the means of attaching the derrick to the building. Fig. 4 is a perspective, upon an enlarged scale, of the derrick-mast. Fig. 5 is a detail plan, upon an enlarged scale, parts being shown in section, of the attaching means shown in Fig. 3, parts being broken away to economize space. Fig. 6 is a central sectional detail of the reel.

Referring to the drawings in detail, my improved fire-fighters' apparatus comprises a derrick-mast 10, adapted to be attached to the building; a pulley 11, attached to the mast; a pulley 12, adapted to be attached to a lamp-post or any other rigid object; an endless rope 13, wound upon the rubber reel 14 for transportation and adapted to run over the pulleys 11 and 12; the grappling-hooks 15, adapted to engage the endless rope and be carried thereby, and the flexible loops 16, carried by the grappling-hooks.

The derrick-mast 10 is a piece of T-iron having a point 17 to engage in the window-sill and having a supporting-chain 18 to connect with the attaching means and having an eye or link 19 to connect with the pulley 11.

The attaching means comprises the T-bars 20 and 21, placed together, the parallel flanges of one bar butting against the parallel flanges of the other bar and forming the frame, there being ratchet-teeth 22 upon the third flange of the bar 21; a bearing-block 23, slidingly mounted upon one end of the frame, the teeth 24 extending from the bearing-block 23; the pawl 25, carried by the bearing-block to engage the teeth 22; the handle 26 for operat-

ing the pawl; the spring 27 for holding the pawl yieldingly against the teeth; a second bearing-block 28, slidingly mounted upon the other end of the frame, the teeth 29 extending from the second bearing-block; the rigid post 30, extending from the end of the frame adjacent to the second bearing-block; the tightening-screw 31, operating through the post 30 and engaging the bearing-block 28; the handle 32 for operating the tightening-screw, and the hook 33, extending from the bearing-block 23 and adapted to connect with the free end of the chain 18. The attaching means is intended to be placed with the teeth 29 inside of the window-frame and the teeth 24 outside of the window-frame. The bearing-block 23 will be moved as far as possible toward the bearing-block 28 and then locked by the ratchet. Then the handle 32 will be operated to tighten the attaching means and drive the teeth 24 and 29 firmly into the window-frame. Then the derrick-mast 10 is placed in an inclined position with the point 17 in the lower sill of the window-frame, and the chain 18 is placed upon the hook 33. Then the pulley 11 is connected to the link 19.

The reel comprises a cylinder 34 of non-frangible material; the rubber disks 35 and 36, attached to the ends of the cylinder 34 by bolts 37, and a hook 38, attached to the cylinder 34 to engage the rope and start the winding. The endless rope is applied to the hook 38 and the reel rotated to wind the rope upon the cylinder between the disks 35 and 36, so that the rope can be conveniently transported. When the apparatus is in use, the reel containing the rope is carried to the desired floor of the building. One end of the rope is attached to any convenient object and the reel is thrown out of the window, so that it will unwind the rope. The rubber disks 35 and 36 are strong and flexible, so that throwing the reel out of the window will do little if any damage, and the reel is readily disconnected from the unwound rope. The pulley 12 is attached to a telegraph-pole or any suitable rigid object upon the ground, the endless rope is applied to the pulleys 11 and 12 by opening the frames in the usual way, and the rope will run round and round over the pulleys 11 and 12.

The grappling-hook 15 comprises an eye 39, to which both ends of the loop 16 are attached; a main frame 40, extending from the eye 39; parallel hooks 41 and 42, extending laterally from the main frame, and a finger

43, extending from the main frame 40 in an opposite direction from the hooks 41 and 42, said finger being located between said hooks and said finger being preferably square or rectangular in cross-section. The grappling-hook thus constructed is attached to the endless rope by passing the rope through the hook 41, half-way around the frame 40, in front of the finger 43, backwardly around the frame 40, and upwardly through the hook 42. An ordinary rope can be applied through a grappling-hook constructed and applied as described. The hooks are readily applied or disconnected, and any suitable object may be attached to the endless rope by passing the loop 16 around the object and passing the grappling-hook through the loop. In Fig. 1 I have shown the manner of elevating the canvas tarpaulins 44 to be used by the salvage corps in covering the goods in protecting them from water. In another part of the view I have shown the loops attached to the hose. One or more men engage the end of the rope and pull it in the proper direction to elevate the tarpaulins or hose or other objects.

I claim—

1. In a fire-fighter's apparatus, a ratchet-bar adapted to be positioned against the side of the window-frame, hooks adjustably arranged on said ratchet-bar, an open link secured to one of the hooks on the ratchet-bar, a mast having a pointed end, a chain secured

to the opposite end and adapted to be engaged in the open link carried by the hook of the ratchet-bar, an endless cable adapted to be carried by the upper end of the mast, and grappling-hooks detachably carried by the cable; substantially as specified.

2. In a fire-fighter's apparatus, the combination of a ratchet-bar, a hook arranged to slide on one end of said ratchet-bar, a screw-threaded shaft for operating said hook, a sliding hook operating on the opposite end of the ratchet-bar, a hand-lever and pawl for actuating said last-mentioned hook on the ratchet-bar, and a derrick-mast having a pointed end and adapted to be secured at its upper end to the sliding hook on the ratchet-bar; substantially as specified.

3. In a fire-fighter's apparatus, the combination with an endless cable, of a grappling-hook comprising a shank, a loop integral with one end thereof, a pair of hooks extending laterally from the shank, and a finger extending laterally from the shank in an opposite direction from the hooks; substantially as specified.

In testimony whereof I have signed my name to this specification in presence of two subscribing witnesses.

WILLIAM W. THOMPSON.

Witnesses:

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