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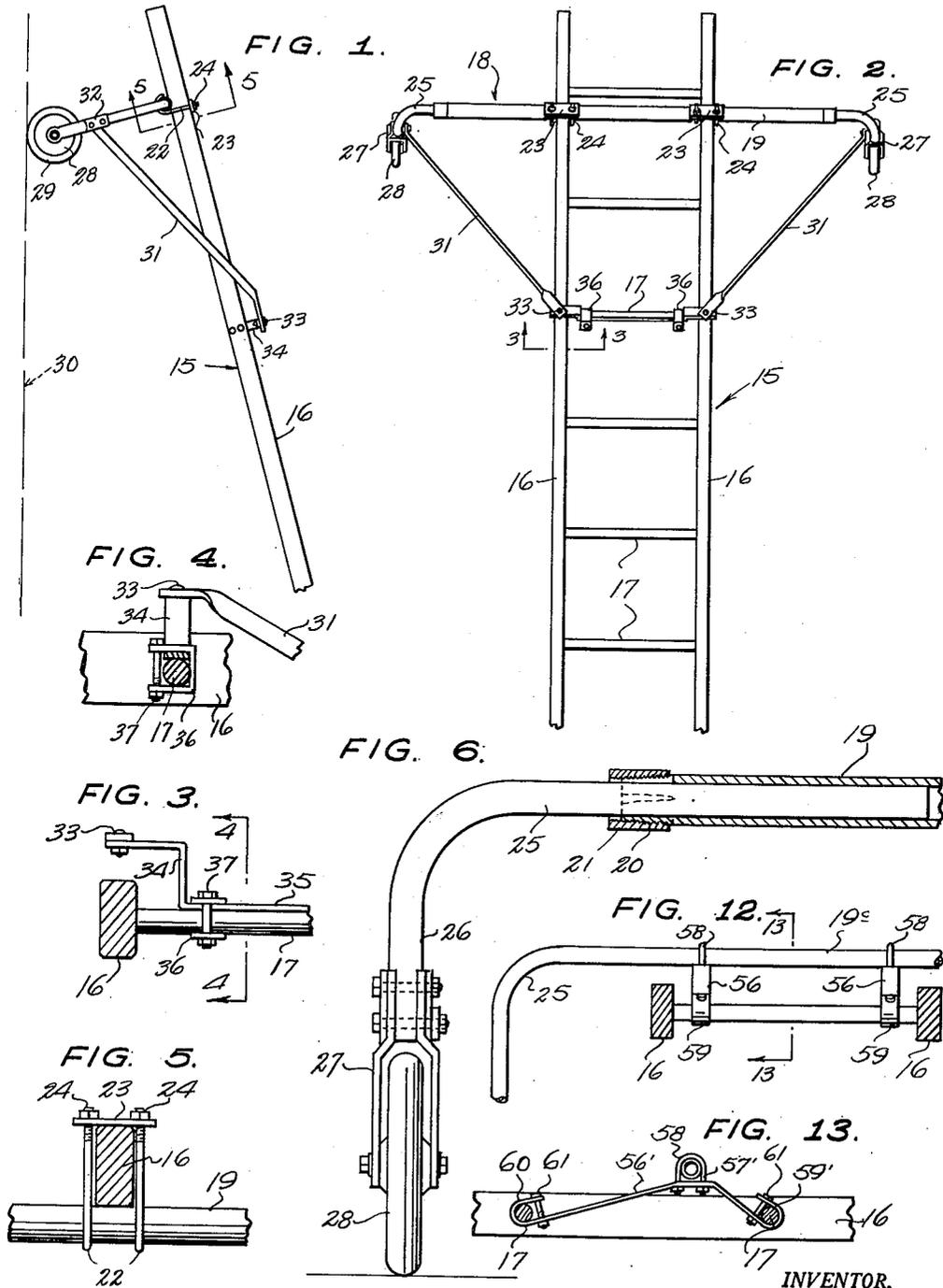
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2,597,902

LADDER REST

Filed Sept. 9, 1949

2 SHEETS—SHEET 1



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2 SHEETS—SHEET 2

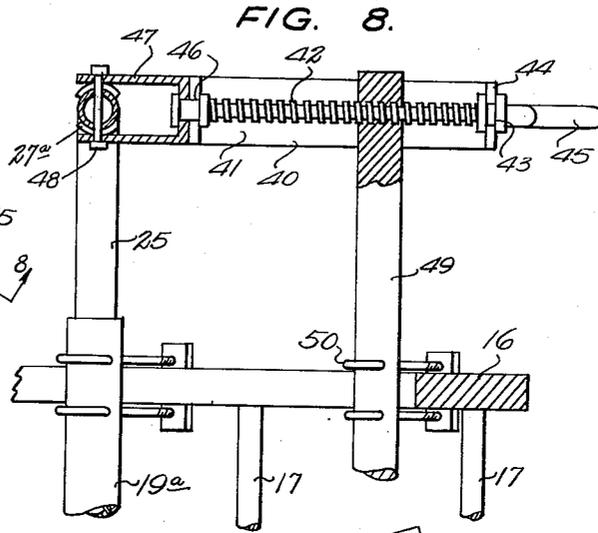
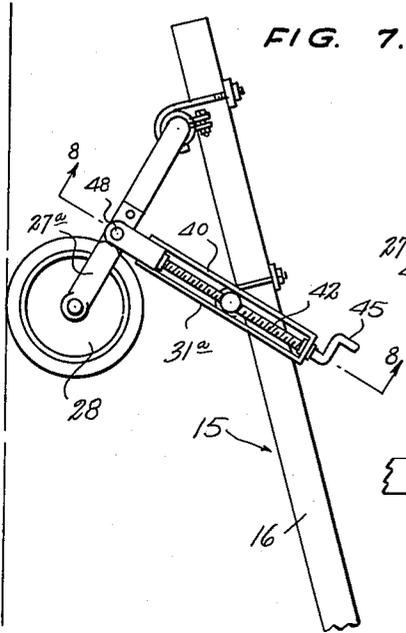


FIG. 10.

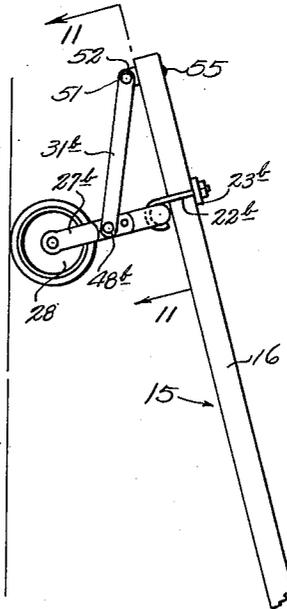


FIG. 9.

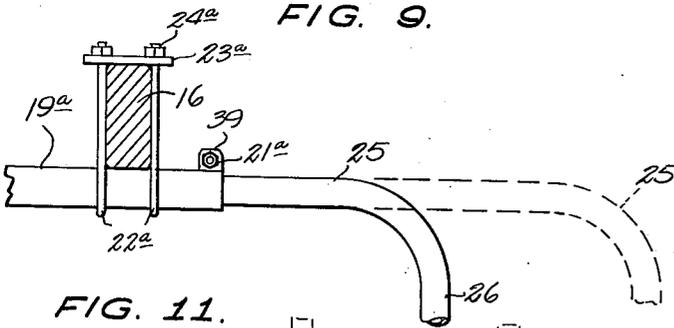
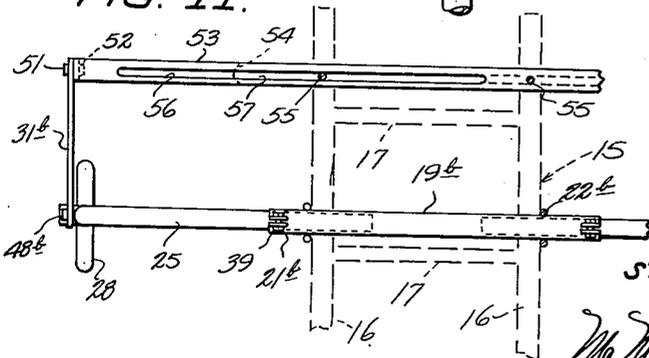


FIG. 11.



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# UNITED STATES PATENT OFFICE

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## LADDER REST

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4 Claims. (Cl. 228—60)

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This invention relates to improvements in ladder rests, the primary object of the invention being to provide ladder rests which engage a wall or the like in a manner to provide clearance between the wall or the like and a ladder, and which involve wheels for rollably engaging the wall or the like at points spaced laterally outwardly from opposite sides of the ladder, whereby a window or the like may be straddled and work can be done on the window or the like without interference from the ladder or from the rests.

Another important object of the invention is the provision of ladder rests of the character indicated above which can be made rigid, non-adjustable form, or in an adjustable form in which the vertical and rearward reach of the rests and the lateral spread of the wheels can be adjusted to suit conditions.

Other important objects and advantageous features of the invention will be apparent from the following description and the accompanying drawings, wherein, for illustrative purposes only, specific embodiments of the invention are set forth in detail.

In the drawings:

Figure 1 is a left-hand side elevation of one embodiment;

Figure 2 is a front elevation thereof;

Figure 3 is a horizontal section taken on the line 3—3 of Figure 2;

Figure 4 is a transverse vertical section taken on the line 4—4 of Figure 3;

Figure 5 is a horizontal section taken on the line 5—5 of Figure 1;

Figure 6 is an enlarged fragmentary top plan view, partly in section;

Figure 7 is a left-hand side elevation of another embodiment;

Figure 8 is a transverse section taken on the line 8—8 of Figure 7;

Figure 9 is a horizontal section taken through Figure 7;

Figure 10 is a left-hand side elevation of a further embodiment;

Figure 11 is a transverse vertical section taken on the line 11—11 of Figure 10;

Figure 12 is a horizontal section of still a further embodiment.

Figure 13 is a transverse vertical section taken on the line 13—13 of Figure 12.

Referring in detail to the drawings, wherein like numerals designate like parts throughout the several related views, and first to Figures 1 to 6, the numeral 15 designates a ladder having stiles 16, 16 and rungs 17, upon which is installed a rest generally designated 18, in accordance with the present invention.

The rest 18 comprises a cross-member compris-

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ing a pipe 19 having split tapered ends 20 on which are threaded tapered clamping collars 21. The cross-member pipe 19 is removably secured against the backs of the stiles 16 by J-bolts 22 which hook upwardly around the pipe 19 and extend forwardly along the inner and outer sides of the stiles and pass through plates 23 engaging the fronts of the stiles, and have clamping nuts 24 on the front ends engaging the plates 23. The pipe 19 is substantially wider than the ladder 15 so as to extend beyond the opposite sides thereof.

Angle brackets have arms 25 inserted in and clamped by the sleeves or collars 21 in the opposite ends of the pipe 19 and arms 26 extending rearwardly and terminating in forks 27 on which wheels 28 are mounted. The wheels may have rubber tires 29 to engage a wall 30 against which the ladder is to be leaned.

The brackets are held in right-angular relation to the ladder by flat bar braces 31 arranged diagonally and having their upper ends riveted at 32 to the bracket arms 26 near the forks 27, with their lower ends secured at 33 to the laterally-outward ends of L-shaped terminals 34 on the forward sides of a clamping bar 35 which engages the forward sides of a ladder rung 17, spaced at a substantial distance below the cross-member pipe 19. U-shaped clamps 36 embrace the rung and the clamping bar 35 and are contracted by bolts 37.

Referring now to the embodiment of Figures 7 to 9, the rest 38 comprises a cross-member comprising a tube 19a having split ends provided with ears 39 through which clamping bolts 21a extend for clamping in the tube 19a the arms 25 of angle brackets having rearwardly-directed arms 26 terminating in forks 27 mounting wheels 28. As indicated in Figure 9, the wheel brackets can be moved outwardly and inwardly and locked in related positions by the bolts 21a to enable the wheels 28 to engage the wall 30 at opposite sides of a relatively wide window or the like (not shown). The tube 19a is secured to the backs of the ladder stiles 16 by J-bolts 22a hooked over the pipe and passing forwardly through plates 23a engaging the fronts of the stiles and secured by nuts 24a.

The braces 31a are in this instance adjustable as to length and comprise elongated U-shaped guides 40 between whose sides 41, 41 extends screws 42 journaled at 43 in the bight portions 44 of the guides and provided at their lower ends with crank handles 45. The upper ends of the screws 42 are rotatably connected at 46 with clevises 47 which slide in the guides and embrace the wheel forks 27a to which the clevises are pivoted on a horizontal axis, as indicated at 48. Also slidable in the guides 40 are the ends of a

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cross-bar 49 secured to the ladder stiles 16 by J-bolts 50, the screws 42 being threaded in the cross-bar 49, whereby rotation of the screws in one direction extends the wheels 28 rearwardly from the ladder 15, while rotation of the screws in the opposite direction retracts the wheels 28 forwardly toward the ladder 15.

In Figures 10 and 11, another embodiment is shown which comprises a cross-member comprising a tube 19b secured by J-bolts 22b to the backs of the ladder stiles, the wheel brackets being longitudinally adjustable in the same manner as in Figures 7 to 9. The braces 31b consist of straight flat bars pivoted at their lower ends at 48b to the wheel forks 27 and pivoted at their upper ends at 51 to rearwardly-projecting ears 52 on the laterally-outward ends of a pair of overlapped bars 53 and 54, which are mounted on the backs of the ladder stiles 16 by bolts 55 passing through the stiles and through longitudinal slots 56 and 57 formed in the bars 53 and 54, respectively. When the bolts 55 are loosened, the bars 53 and 54 can be extended or contracted in conjunction with the wheel brackets to place the wheels 28 at the desired distance from the outer sides of the ladder stiles 16.

In Figures 12 and 13, a still further embodiment of the invention involves a cross-member in which the angle wheel brackets are integral with and non-extensible with respect to the tube 19c, and the tube 19c is mounted at the back of a ladder 15 by means of straps 56' which have rearwardly-offset middle portions 57' carrying U-bolts 58' embracing the tube 19c. The upper ends of the straps 56' have rearwardly and downwardly-extending hooks 59' embracing an upper ladder rung 17 and the lower ends of the straps have upwardly and rearwardly-extending hooks 60 embracing a lower ladder rung 17, bolts 61 traversing the hooks to clamp the straps on the ladder rungs.

What is claimed is:

1. A ladder rest for attachment to a ladder including spaced upstanding stiles and a plurality of spaced rungs arranged transversely of and between said stiles and secured to the latter, comprising a bar adapted to be arranged transversely of and abutting said stiles intermediate the ends, means embracing said bar and attached to said stiles for supporting said bar in position on said stiles, a first arm arranged transversely of and adjacent to one end of said bar and having one end extending into and adjustably secured to said bar, a second arm arranged transversely of and adjacent to the other end of said bar and having one end extending into and adjustably secured to said bar, a wheel mounted on the other end of each of said arms and adapted to rollably contact a supporting surface, and a brace extending between each of said arms and the adjacent stile and having one end fixedly secured to the adjacent arm and having the other end operatively connected to the portion of the stile adjacent thereto.

2. A ladder rest for attachment to a ladder including spaced upstanding stiles and a plurality of spaced rungs arranged transversely of and between said stiles and secured to the latter, comprising a bar adapted to be arranged transversely of and abutting said stiles intermediate the ends, means embracing said bar and attached to said stiles for supporting said bar in position on said stiles, a first arm arranged transversely of and adjacent to one end of said bar and having one end fixedly secured to said bar, a second arm

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arranged transversely of and adjacent to the other end of said bar and having one end fixedly secured to said bar, a wheel mounted on the other end of each of said arms and adapted to rollably contact a supporting surface, a brace extending between each of said arms and the adjacent stile and having one end fixedly secured to the adjacent arm and a clamping bar carried by the adjacent rung and connected to each of the other ends of said braces.

3. A ladder rest for attachment to a ladder including spaced upstanding stiles and a plurality of spaced rungs arranged transversely of and between said stiles and secured to the latter, comprising a bar adapted to be arranged transversely of and abutting said stiles intermediate the ends, means rotatably supporting said bar and attached to said stiles for supporting said bar in position on said stiles, a first arm arranged transversely of and adjacent to one end of said bar and having one end fixedly secured to said bar, a second arm arranged transversely of and adjacent to the other end of said bar and having one end fixedly secured to said bar, a wheel mounted on the other end of each of said arms and adapted to rollably contact a supporting surface, a brace extending between each of said arms and the adjacent stile and mounted on the adjacent stile for movement toward and away from the latter stile, one end of each of said braces being pivotally connected to the adjacent arm, and hand actuable means operatively connected to the other end of each of said braces for effecting the movement of the latter.

4. A ladder rest for attachment to a ladder including spaced upstanding stiles and a plurality of spaced rungs arranged transversely of and between said stiles and secured to the latter, comprising a bar adapted to be arranged transversely of and abutting said stiles intermediate the ends, means embracing said bar and attached to said stiles for supporting said bar in position on said stiles, a first arm arranged transversely of and adjacent to one end of said bar and having one end fixedly secured to said bar, a second arm arranged transversely of and adjacent to the other end of said bar and having one end fixedly secured to said bar, a wheel mounted on the other end of each of said arms and adapted to rollably contact a supporting surface, a brace extending between each of said arms and the adjacent stile and having one end pivotally connected to the adjacent arm, extensible and contractile means arranged transversely of and carried by said stiles and spaced from said bar, and means connecting the other end of each of said braces to said first named means.

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