Nov. 17, 1953 R. P. SKAGGS ET AL 2,659,087

ADJUSTABLE STILTS

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Fig. 1.

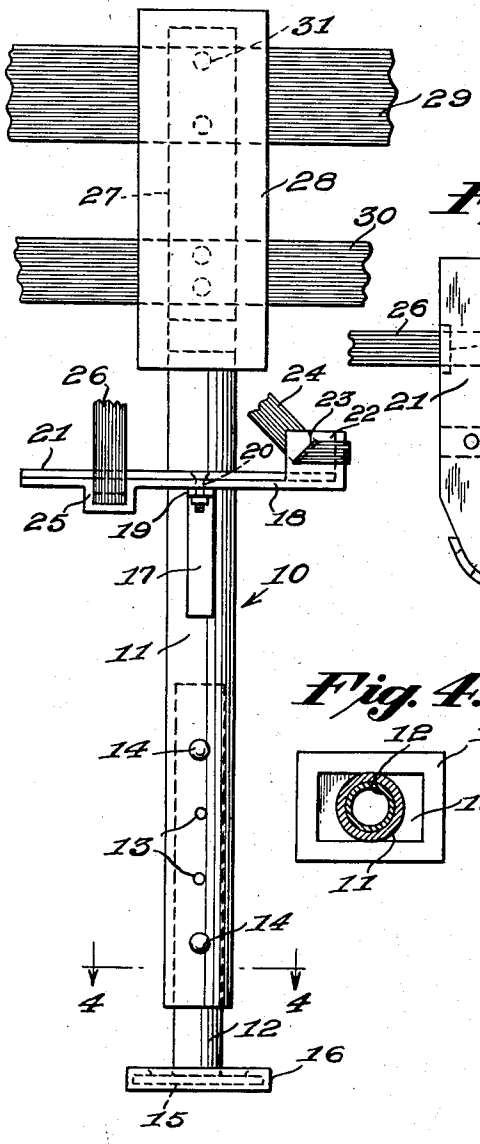


Fig. 3.

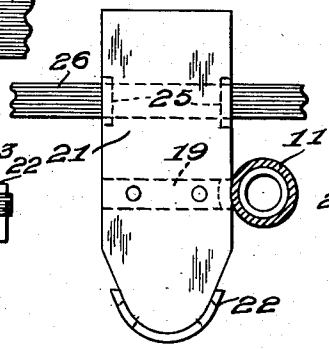


Fig. 2.

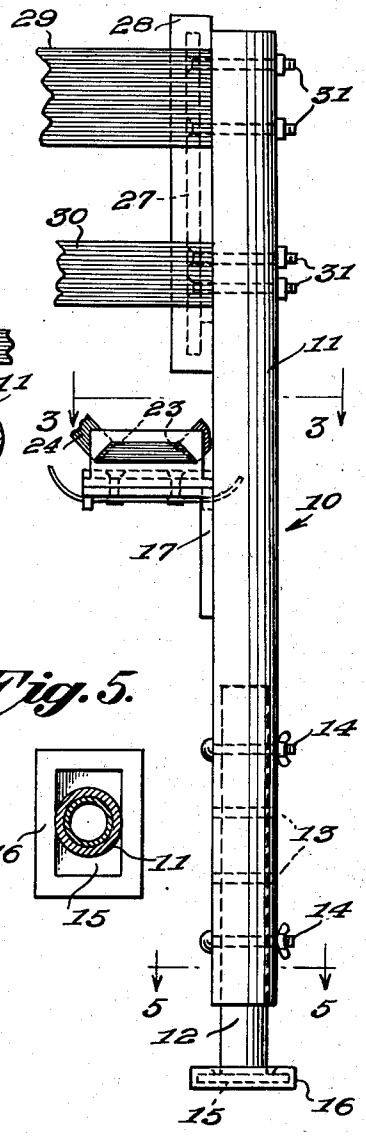


Fig. 4.

Fig. 5.

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Fig. 6.

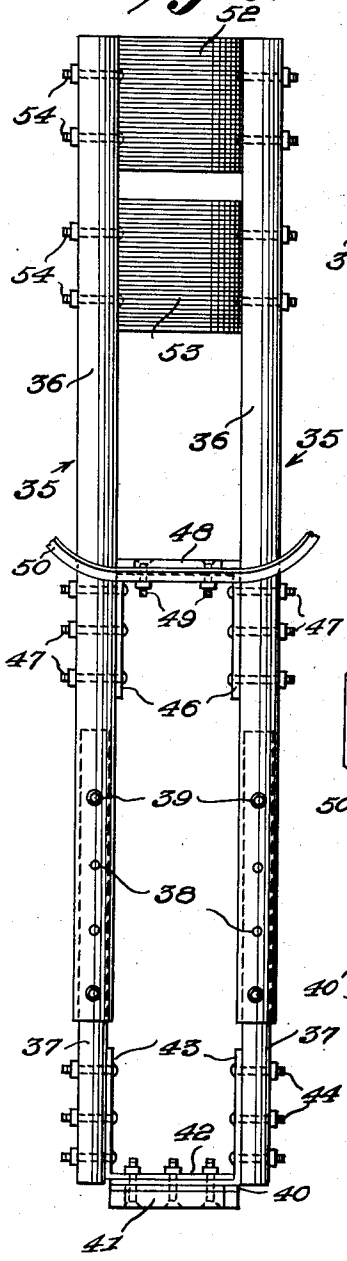


Fig. 8.

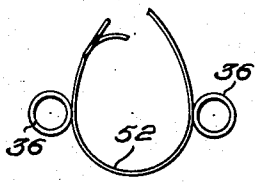


Fig. 9.

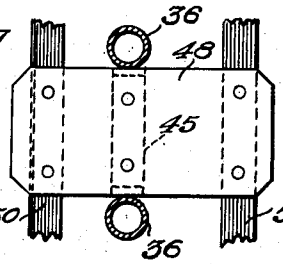


Fig. 10.

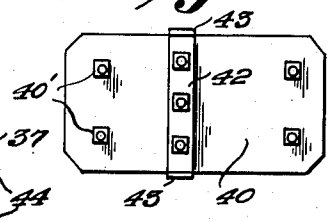
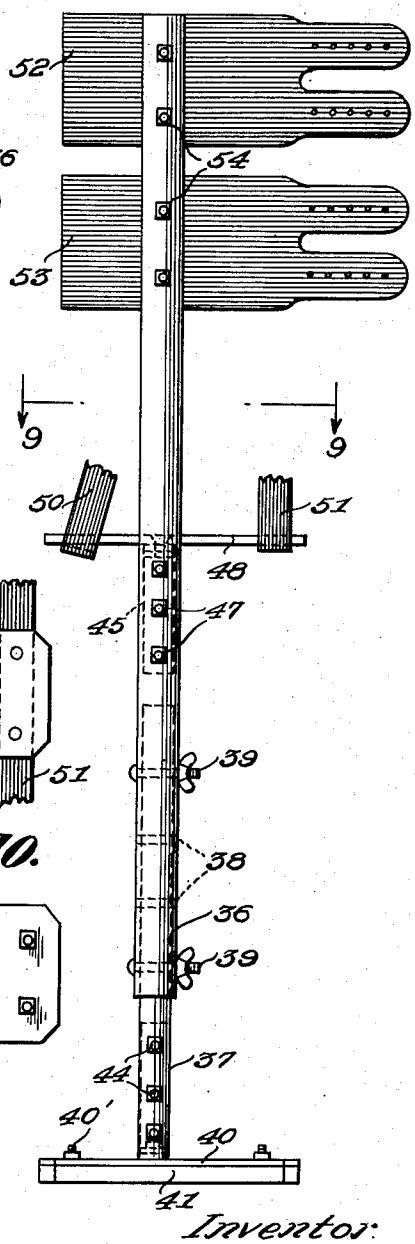


Fig. 7.



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ADJUSTABLE STILTS

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Application March 19, 1951, Serial No. 216,356

3 Claims. (Cl. 3—4)

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This invention relates to adjustable stilts.

The invention is more particularly concerned with vertically adjustable stilts for use by a workman in and about one-story buildings whereby his body is sufficiently elevated for performance of this duties without need of the usual scaffolding for such purpose.

A primary object of the invention is to provide a pair of stilts adapted for secure and comfortable attachment to the legs of a wearer, and which embody adjustable supports with foot rests on the supports above the regions of adjustment thereof.

A further object of the invention is to provide workmen's body-elevating stilts which are simple in construction, comfortable in use, and which are vertically adjustable for elevating the body of a workman to a position for effective performance of this work.

A still further object of the invention is to provide workmen's body-elevating stilts which embody an adjustable leg-engageable member having ground-engaging shoes and foot-engageable rests, and wherein the shoes and rests are provided with cushion members.

Other objects and advantages of the invention will become apparent in the course of the following detailed description, taken in connection with the accompanying drawings, wherein—

Figure 1 is a side elevational view of one of the stilts in accordance with one structural embodiment of the invention.

Fig. 2 is a front elevational view of one of the stilts.

Fig. 3 is a horizontal section in the plane of line 3—3 on Fig. 2.

Fig. 4 is a horizontal section in the plane of line 4—4 on Fig. 1.

Fig. 5 is a horizontal section in the plane of line 5—5 on Fig. 2.

Fig. 6 is a rear elevation of a modified form of one of the stilts.

Fig. 7 is a side elevation of one of the stilts as shown in Fig. 6.

Fig. 8 is a top plan view as observed from the top of Fig. 6.

Fig. 9 is a horizontal section in the plane of line 9—9 on Fig. 7.

Fig. 10 is a top plan view of one of the shoe-supporting brackets.

Referring now in detail to the drawings and first to Figs. 1 to 5 thereof, each stilt comprises an elongated body support 10 which comprises a relatively long tubular member 11 and a shorter tubular member 12 having an outer diameter substantially equal to the inner diameter of

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member 11 and having telescoping engagement therewithin. The telescoped tubular members 11 and 12 are provided with normally alined diametrically disposed apertures 13 for selectively receiving two or more bolts 14, whereby the length of support 10 may readily be varied upon variable alinement of the apertures in the tubular members 11 and 12 and the positioning of bolts 14 therein.

The lower end of tubular member 12 is provided with a floor or ground-engageable shoe which comprises a rectangular plate 15 rigidly secured to the lower end of the tubular member 12, and a rubber cap 16 is disposed over the plate. The rubber cap 16 functions to absorb shocks upon walking movement of a workman wearing the stilts.

The tubular member 11 is provided with an inverted L-shaped bracket 17 for supporting a foot rest. The foot rest comprises an elongated metallic plate 18 extending transversely of the horizontal leg 19 of the bracket and secured thereto as by means of a bolt 20, and the plate projects on opposite sides of the leg 19, as is clearly shown in Fig. 1.

A rubber pad 21 is secured to the plate 18, as by means of adhesive, and functions to cushion a foot resting on the rest. The heel end of plate 18 is provided with an upstanding arcuate flange 22 provided with a pair of spaced diagonally disposed slots 23 through which is threaded an instep-engageable strap 24, which may be provided with suitable adjustable end-connecting means.

The plate 18 adjacent the toe end thereof is provided with a pair of depending stirrups 25, and a toe-engageable strap 26 has its intermediate portion disposed beneath the plate and extending through the stirrups.

Leg-engageable means are provided adjacent the upper end of tubular member 11, and such comprises a rectangular plate 27 to which is removably attached a leg-engageable foam rubber pad 28. A pair of leg-encircling straps 29 and 30 have their intermediate portions disposed at the rear of plate 27 and through which extend bolts 31 whose heads are countersunk in the plate and whose shanks extend through the tubular member 11.

In use, a workman will first adjust the tubular members 11 and 12 for proper body elevation for any given work condition. He will then place his feet on the pads 21 of the foot rests and then secure the straps 24 and 26, after which he will secure the straps 29 and 30 about his legs.

The foam rubber pads 28 will provide comfortable contact of the legs with the stilts, and

the cushions 16 and 21 will absorb shocks upon walking movement of the workman wearing the stilts.

It is to be noted that the foot rests are close to the supports 10 and that the ground-engageable shoes are of relatively large area, whereby a workman after a short period of use of the stilts will be able to maintain his equilibrium with his entire attention directed toward his work.

In the modified embodiment of the invention shown in Figs. 6 to 10, each stilt comprises a pair of supports 35, each of which comprises a relatively long major tubular member 36 and a shorter tubular member 37 telescopingly engaged within the tubular member 36.

The tubular members are provided with normally alined apertures 38 for receiving two or more bolts 39 for effecting axial adjustment of the supports 35.

The tubular members 37 are provided with floor or ground-engageable shoes, each of which comprises a generally rectangular plate 40, to the bottom of which is secured, by means of bolts 40', a cushion pad 41. The plate 40 is rigidly secured in position by means of a two-piece U-shaped bracket 42 whose legs 43 are secured to the inner sides of tubular members 37 by means of bolts 44.

A two-piece inverted U-shaped bracket 45 is disposed between the tubular members 36, and the depending legs 46 thereof are secured to the inner sides of tubular members 36 by means of bolts 47.

A foot rest plate 48, of generally rectangular form, is secured intermediate its ends to the base of bracket 45 by means of bolts 49, and the plate 48 may be provided with a cushion pad, as in the first form of the invention.

A pair of straps 50 and 51 have their intermediate portions suitably secured to the lower face of plate 48, and such straps are adapted to engage the instep and toe of the foot of a wearer.

A pair of relatively wide leg-encircling straps 52 and 53 are disposed between the tubular members 36 and are connected thereto by bolts 54.

This form of the invention provides for greater stability of a workman using the stilts, since the ground-engaging shoes, the foot rests, and the leg-securing straps are all disposed between a pair of supports.

While we have disclosed the invention in accordance with certain specific structural embodiments thereof, such is to be considered as illustrative only, and not restrictive, the scope of the invention being defined in the following claims.

What we claim and desire to secure by U. S. Letters Patent is:

1. A stilt comprising an elongated support, a rectangular flat ground-engageable shoe rigidly connected to one end of the support, a cushion pad engaged with the lower face of the shoe and having a rectangular flat ground-engaging face, an elongated foot-rest secured to the support intermediate its ends and separated from the ground-engageable shoe, a toe-engageable strap having its intermediate portion engaged with the foot-rest adjacent one end thereof, an instep-engageable strap having its intermediate portion engaged with the foot-rest adjacent the opposite end thereof, a pair of vertically spaced leg-engageable straps adjacent the opposite end of said support and having their intermediate portions connected thereto, and an adjustable connection in the support between the ground-engageable shoe and the foot-rest.

2. A stilt comprising a support including a relatively long tubular member and a relatively short tubular member adjustably telescopingly engaged within one end of the relatively long tubular member, one end of the short tubular member projecting beyond the adjacent end of the long tubular member and having a ground-engaging shoe rigidly supported thereby, a cushion pad on the bottom face of said shoe, a bracket secured to the relatively long tubular member intermediate its ends, an elongated foot-rest extending transversely of the relatively long tubular member and having its intermediate portion secured to said bracket, toe and instep engageable straps connected to the foot-rest and disposed on opposite sides of the relatively long tubular member, a cushion pad on said foot-rest, leg-engageable means adjacent the opposite end of said relatively long tubular member comprising a plate elongated lengthwise of said support, a cushion pad removably attached to said plate, means securing said plate and pad to the relatively long tubular member, and a pair of leg-engageable straps in spaced relation lengthwise of said relatively long tubular member and having intermediate portions thereof disposed between the plate and the relatively long tubular member.

3. A stilt comprising a support including a pair of first relatively long tubular members, a pair of second relatively short tubular members telescopingly engaged within corresponding ends of the first tubular members, uniformly spaced diametrically disposed apertures in the walls of said first and second tubular members for the removable reception of bolts for holding the first and second tubular members in axial adjusted relation, corresponding ends of said second tubular members projecting beyond said corresponding ends of said first tubular members, brackets disposed between and secured to said corresponding ends of said second tubular members, a ground-engageable shoe secured to said brackets, a cushion pad supported on the bottom face of said shoe, a U-shaped bracket disposed between and secured to said first tubular members intermediate their ends, an elongated foot-rest supported on said U-shaped bracket and disposed between said first tubular members, toe and instep engageable straps supported by the foot-rest, and a pair of relatively wide leg-engageable straps disposed between said first tubular members adjacent their opposite ends and secured thereto.

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EVERETT E. SKAGGS.

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