Nov. 26, 1957 S. E. VAN HORN 2,814,533

SHINGLING SCAFFOLD

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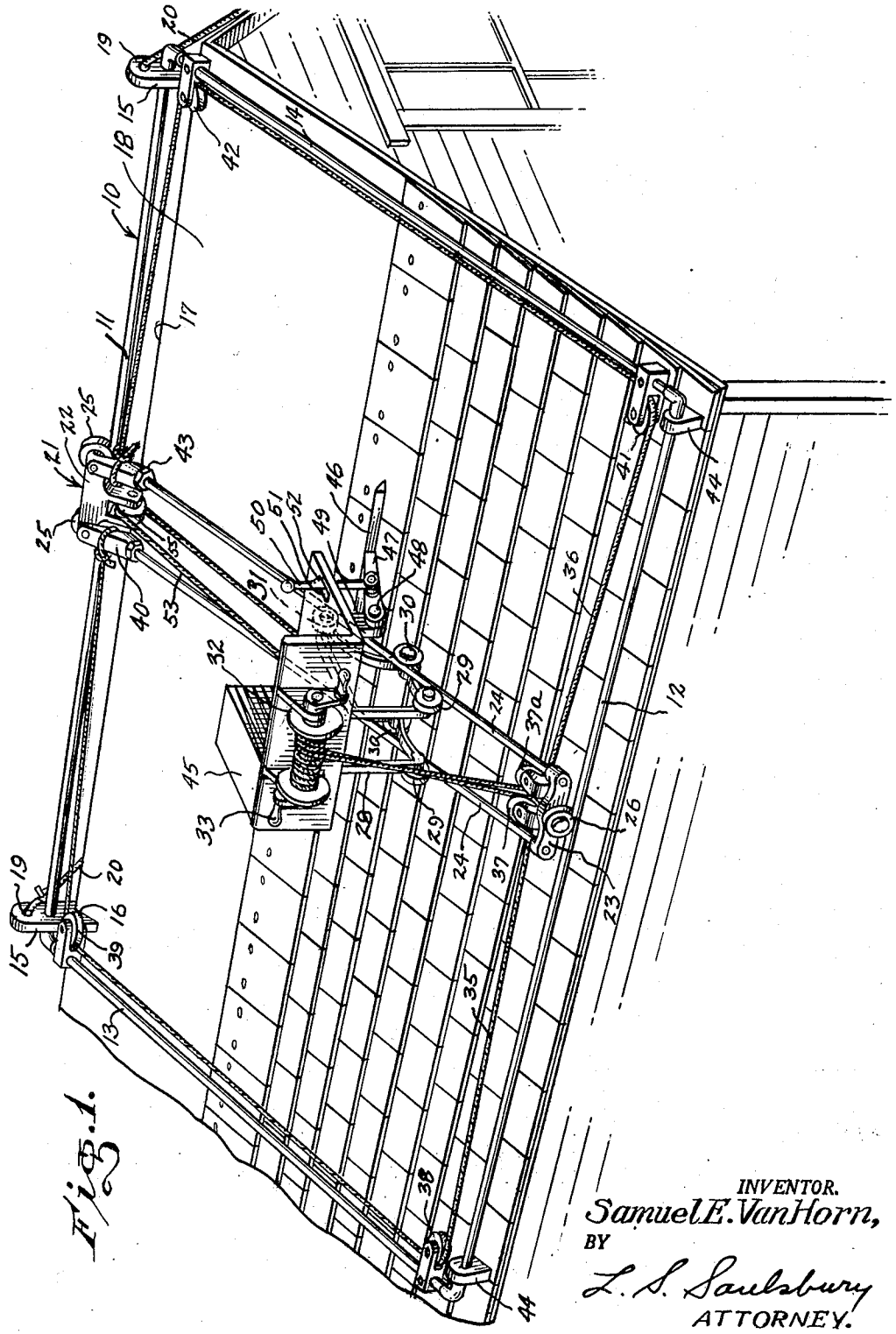


Fig. 1.

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Fig. 2.

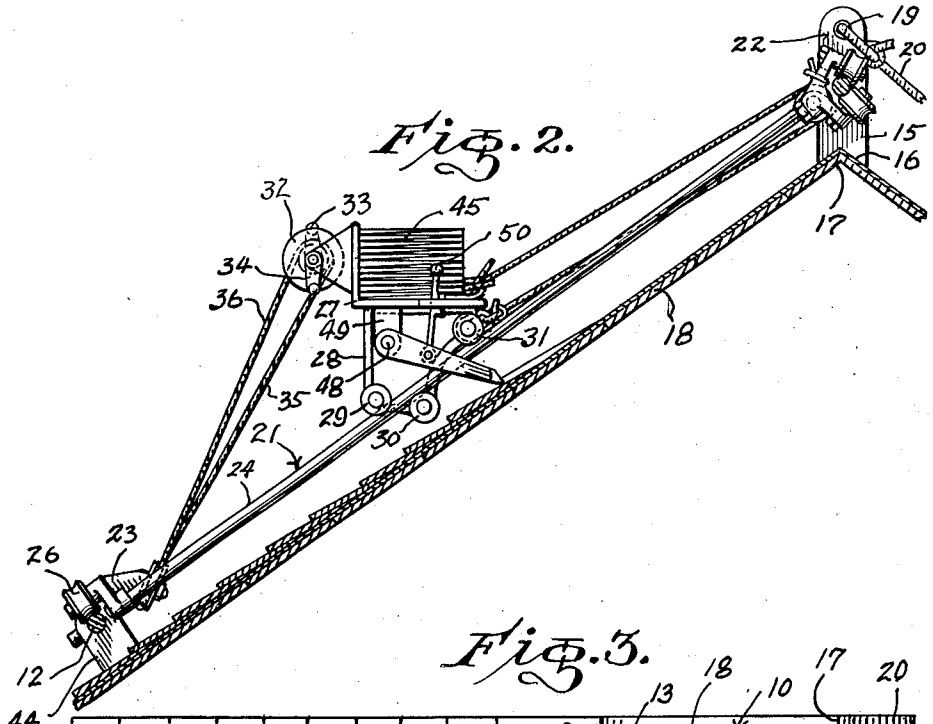
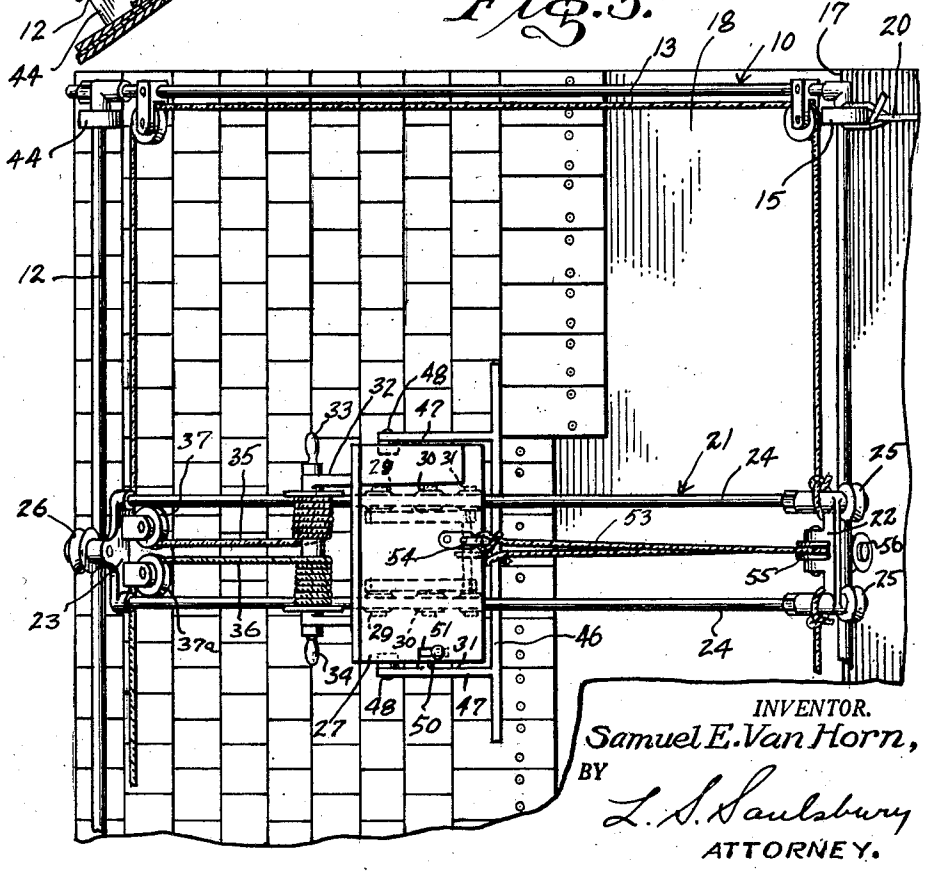


Fig. 3.



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SHINGLING SCAFFOLD

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2 Claims. (Cl. 304—21)

The present invention relates to a shingling scaffold and it consists in the combinations, constructions and arrangements of parts herein described and claimed.

Generally there is provided a shingling scaffold comprising an open rectangular frame one of the longer sides of which is provided with roof tree-engaging feet while the other of the longer sides is provided with a pair of elevating feet. A frame including a pair of spaced rails is mounted by means of rollers upon the two longer sides of the main frame and has an operator's seat mounted upon such rails for movement upwardly and downwardly in parallel spaced relation to the face of a slanting roof. The seat is moved upwardly and downwardly by means of a cable connected thereto at one of its ends and extending over a roller or pulley at the uppermost portion of the seat frame and capable of being tied at its other end to the seat when a selected position has been found for the latter. Novel means is also provided, including a winch and a novel arrangement of cables and pulleys for moving the seat frame in its entirety in a lateral direction with respect to a slanting roof. There is also provided novel means for aligning shingles to be attached to the roof. The device contains many other novel features which will be brought out in the appended specification.

It is accordingly an object of the invention to provide a device of the character set forth which is simple in construction, inexpensive to manufacture and yet effective and efficient in use.

Another object of the invention is to provide, in a device of the character set forth, an operator's seat and novel means for moving the same to selected positions upon a roof.

Other and further objects of the invention will become apparent from a reading of the following specification taken in conjunction with the drawings, in which:

Figure 1 is a perspective view of an embodiment of the invention shown in position upon a roof,

Figure 2 is a vertical sectional view thereof, and

Figure 3 is a fragmentary plan view of the device illustrated in Figures 1 and 2.

Referring more particularly to the drawings, there is shown therein a device of the character set forth comprising a main frame generally indicated at **10** and consisting of an upper horizontally extending tubular track member **11**, a lower horizontally extending tubular track member **12** and a pair of tubular end members **13** and **14** which interconnect the ends of the members **11** and **12**. A pair of vertically extending anchoring feet **15** is mounted upon the tubular member **11**, one adjacent each end thereof and each is provided with an inverted V-shaped bottom **16** adapted to receive therein the peak portion **17** of a sloping roof **18**.

The upper end of each of the anchoring feet **15** is provided with an eye **19** whereby a cable **20** may be fastened thereto, it being understood that the opposite ends of the cables **20** may be fastened to some secure device whereby to insure against slippage of the device of the present invention from the roof **18**.

A carriage is generally indicated at **21** and it consists of an upper transverse member **22** and a lower transverse member **23** which are interconnected with a pair of spaced parallel tubular rails **24**. The upper end of the carriage **21** is supported by a pair of rollers **25** carried by the member **22** and engaged upon the tubular member **11** and a flanged roller **26** carried by the member **23** and engaged with the tubular member **12**.

A seat **27** is carried by a frame **28** which is supplied with a pair of rear rollers **29** each engaging the upper side of one of the members **24**; a pair of intermediate rollers **30** each engaging the underside of one of the members **24**; and a pair of forward rollers **31** each engaging the upper side of one of the members **24**.

A winch **32** is mounted upon the rear of the seat **27** and is provided with operating handles **33** and **34** at opposite sides thereof. Two cables **35** and **36** are wound upon the winch **32** in opposite directions. The cable **35** extends from the winch to a pulley **37** carried by the member **23** and thence to a pulley **38** carried by the lower portion of the member **13** from which it proceeds to a pulley **39** carried by the upper end portion of the member **13** after which it extends to an anchor block **40** mounted upon the inner side of the member **21**. The cable **36** extends downwardly to a pulley **37***a*; thence to a pulley **41** carried by the lower end portion of the member **14**; thence to a pulley **42** carried by the upper end portion of the member **14**; and thence to an anchoring block **43**, likewise carried by the member **21**. The free ends of the cables **35** and **36** are respectively tied to the anchoring blocks **40** and **43**. Upon the member **12** adjacent each end thereof is a supporting foot **44**. A supply of shingles **45** may be carried upon the seat **27**, as shown in Figures 1 and 2. An aligning bar **46** is mounted upon the outer ends of levers **47** which are pivoted at their inner ends, as indicated at **48**, to brackets **49** mounted upon the underside of the seat **27**.

An operating handle **50** extends through a slot **51** in one side of the seat **27** and is provided with a forwardly extending dog **52**. The handle **50** is pivoted at its lower end to one of the levers **47**.

A pull rope **53** is connected at one of its ends to an eye **54** centrally mounted upon the forward end of the seat **27** and extends thence upwardly to a pulley **55** and thence downwardly again to the seat **27** where it is tied. A roller **56** is mounted centrally upon the member **22** and extends forwardly thereof and bears against the underside of the tubular member **11**.

In operation, it will be apparent that the main frame **10** may be mounted upon one side of a sloping roof, as shown in the drawings while placing the V-shaped opening **16** over the peaked portion of the roof and then allowing the device of the present invention to rest upon the one side of the roof with the feet **44** supporting the same at the lower end thereof. To insure against slippage of the device from the roof, the cables **20** may be extended to suitable anchoring means (not shown). It will be apparent that the seat **27** may now be moved upwardly and downwardly upon the face of the roof by manipulating the pull rope **53**, it being apparent that by paying out the same, the seat **27** will lower by gravity toward the member **12** whereas, when it is desired to move the seat upwardly toward the peak of the roof, it is only necessary to draw the same inwardly and to tie the same when the desired point has been reached. It will also be apparent that the entire carriage **21** may be moved in a horizontal direction along the members **11** and **12** by selectively turning the handles **33** and **34**, it being apparent that as the cable **36** is wound upon the winch **32** that the carriage **21** must perforce move to the right as viewed in Figure 1 while at the same time the cable **35** will pay out from the winch **32** making such movement

possible. To move in the opposite direction, it is only necessary to wind up the cable **35** upon the winch **32** whereupon the other cable **36** will pay out permitting such movement. Thus it will be seen that the seat **27** may be moved to any desired position upon the roof **18**. When a single shingle **45** has been affixed to the roof **18**, the aligning bar **46** may be placed against the lower end thereof whereupon additional shingles **45** may be placed against the aligning bar **46** and then fastened to the roof by nails or the like thus insuring perfectly straight lines of shingles upon the roof **18**.

While but one form of the invention has been shown and described herein, it will be readily apparent to those skilled in the art that many minor modifications may be made without departing from the spirit of the invention or the scope of the appended claims.

What is claimed is:

1. A shingling scaffold device comprising an open rectangular frame including spaced top and bottom longitudinal track members, connected end members, inverted V-shaped anchoring feet affixed to said top track member and supporting feet affixed to said bottom track member, carriage means carried by said frame, said carriage means including upper and lower transverse members interconnected by spaced parallel rail members, a pair of rollers carried by said upper transverse member and engaging the upper side of said top track member and a third roller carried by said upper transverse member and engaging the lower side of said top track member and a flanged roller member carried by said lower transverse member and engaging said bottom track member, a seat member carried by said spaced parallel rail members, said seat member carrying pairs of rollers engaging the upper sides of each of said rail members and intermediate rollers engaging the undersides of each of said rail members, winch means mounted on said seat member, two cables wound in opposite directions on said winch, said cables extending downwardly from said winch means over pulley means carried by said lower transverse member in opposite directions to the ends of said bottom track member over pulley means and upwardly to opposite ends of said top track member, and over pulley means and to fastening means carried by said upper transverse member, and manually-operable means for moving said seat member along said rail members.

2. A shingling scaffold device comprising an open rectangular frame including spaced top and bottom longitudinal track members, means for mounting said frame on a slanting roof, carriage means carried by said track members, said carriage means including a pair of parallel transverse rail members and roller members engaging said track members, a seat member carried by said parallel rail members, means for moving said carriage along said track members, manually-operable means for moving said seat along said rail members, said means for anchoring said frame on a slanting roof including inverted V-shaped anchoring feet affixed to said top track member and supporting feet affixed to said bottom track member, said means for moving said carriage along said track members including winch means mounted on said seat member, two cables wound in opposite directions on said winch, said cables extending downwardly from said winch means over pulley means carried by the lower end of said carriage, in opposite directions to the ends of said bottom track member, over pulley means and upwardly to opposite ends of said top track member, and over pulley means and to fastening means carried by the upper end of said carriage.

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