May 5, 1964 W. B. BROWN 3,131,907

SHEET ROCK HOIST

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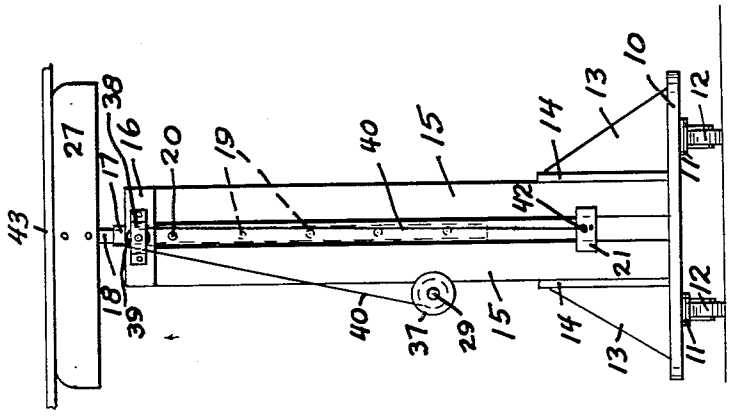

Fig. 2

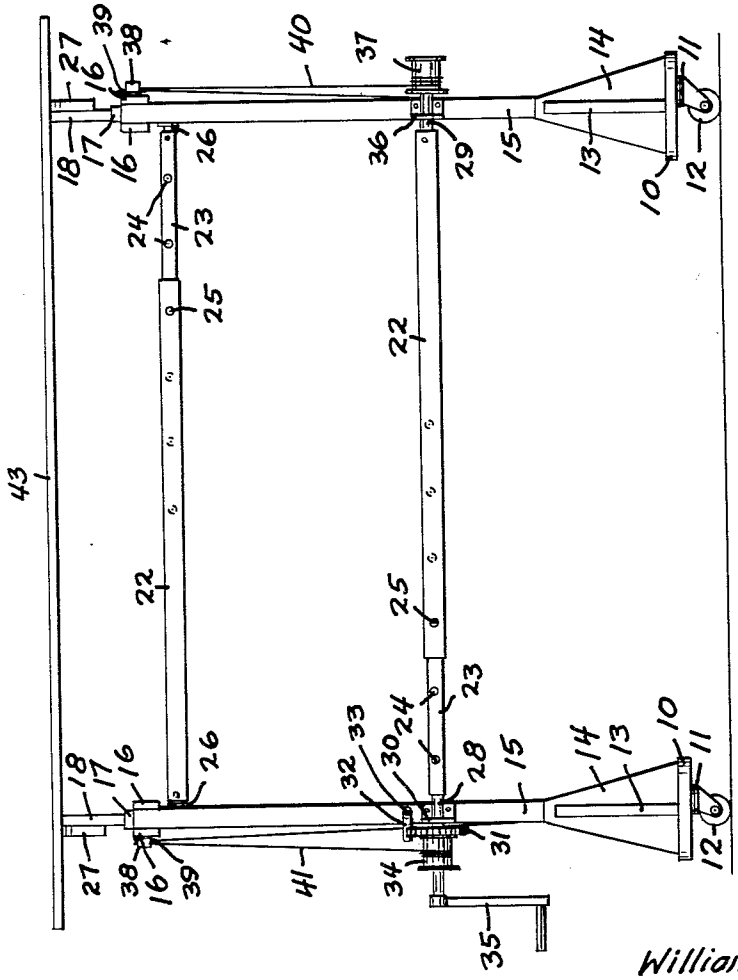

Fig. 1

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SHEET ROCK HOIST

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My invention relates to a sheet rock hoist.

An object of my invention is to provide a hoist which will easily raise flat sheets of sheet rock to a ceiling so that the sheet rock can then be attached thereto.

A further object of my invention is to provide an arrangement which is adjustable, to provide means for handling various sizes of sheet rock.

A further object of my invention is to provide an arrangement which requires a minimum of effort in raising the sheet rock, and to provide other advantages which will be readily apparent.

With these and other objects in view, my invention consists in the construction, arrangement, and combination of the various parts of my device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which:

FIGURE 1 is a side elevation of my device, and

FIGURE 2 is an end view of FIGURE 1.

I have used the character **10** to indicate a pair of base members to which members are suitably pivoted at **11** the caster wheels **12**, the character **13** indicating braces, and the character **14** indicating further braces.

Secured to the braces 14 are the vertically positioned spaced supports **15** to which are attached at their upper ends the transverse bracing members **16**, and received within the members **16** and between the members **15** are the vertically positioned square-in-section tubes **17** which receive the male square bars or tubes **18**, the bars **18** including a series of spaced openings **19**, the tubes **17** including the pins **20**, which pins **20** are receivable within any of the openings **19** to provide vertical adjustability.

Securely attached to the bottom of the tubular members **17** are the straps **21** which are adapted to straddle the members **15** to thereby provide a guide for the members **17**.

The character **22** indicates further square-in-section hollow tubes which receive the male square-in-section further members **23** having the openings **24**, the members **22** including further pins **25** adapted to be received in any of the openings **24** to provide adjustment between the frameworks.

The upper members **22** and **23** are suitably secured as at **26** to certain of the members **15**. Attached at the upper ends of the members **18** are the vertically positioned substantially lengthended members **27**, and attached to the lower members **23** and **22** are the shafts **28** and **29**, the shaft **28** passing through a journalling member **30** which is attached to one of the members **15**, and attached to the shaft **28** is a toothed gear member **31** which engages a latch **32** pivoted at **33**, and also attached to the shaft **28** is a reel **34** and an operating handle **35**.

Receiving the shaft **29** is a further journalling member **36** which is secured to one of the members **15**, and attached to the shaft **29** is a further reel **37**.

The character **38** indicates substantially U-shaped members attached to certain of the members **16**, and journalled in the members **38** are the pulleys **39**. Passing over the pulleys **39** are the cables **40** and **41**, one end of the cable **40** being attached at **42** to one of the members **21**, the other end of the cable **40** being attached to the reel **37**, and with one end of the cable **41** being attached to the

reel **34**, and the other end being attached similarly to one of the other members **21** on the other framework.

The hoist is operated in the following manner. The slab or piece of sheet rock which is indicated by the character **43** is first placed on the members **27**, and next, the handle **35** is rotated, whereby both reels **34** and **37** will simultaneously operate the cables **40** and **41** to thereby lift the members **17** upwardly until the sheet rock is against the ceiling. Next, the catch **32** is placed in its locking position as shown, which will maintain the sheet rock **43** in its upper position, whereupon the workman can then conveniently nail the sheet rock to the ceiling, this arrangement thereby providing means whereby the sheet rock can be very conveniently handled without requiring the holding by several workmen and the like. The arrangement can then be lowered by merely releasing the catch.

It will be noted that the telescoping members **22** and **23** permit means whereby the supporting units can be moved apart to any distance desired to thereby accommodate longer or shorter pieces of sheet rock. The casters permit positioning wherever desired, and it will also be noted that the members **18** can be raised to any desired elevation by means of the pins **20** and openings **19** to thereby provide means whereby very high ceilings can be accommodated.

It will also be noted that the members **22**, **23** provide means for maintaining rigidity to the structures.

It will now be seen that I have provided the advantages mentioned in the objects of my invention with further advantages being apparent.

Some changes may be made in the construction and arrangement of the parts of my invention without departing from the real spirit and purpose of my invention, and it is my intention to cover by my claims any modified forms of structure or use of mechanical equivalents which may be reasonably included within their scope.

I claim as my invention:

1. A sheet rock hoist comprising a pair of spaced frameworks, said frameworks each including upwardly movable posts, means for moving said posts upwardly including a rotatable shaft journalled on said frameworks, means for rotating said rotatable shaft, a pair of reels attached to said rotatable shaft, cables attached to said reels, pulleys attached to said frameworks over which said cables pass, each of said cables being attached at one end to the bottom of said posts, means for providing adjustable spacing of said frameworks including an upper telescoping member, means for adjustably securing said telescoping member, said shaft including further telescoping members, means for adjustably securing said further telescoping members, said frameworks including base portions, casters journalled benath said base portions, said frameworks including vertically positioned supports, said posts being slidable between said supports, guide straps attached to said posts straddling said supports.

2. A sheet rock hoist comprising a pair of spaced frameworks, said frameworks each including upwardly movable posts, means for moving said posts upwardly including a rotatable shaft journalled on said frameworks, means for rotating said rotatable shaft, a pair of reels attached to said rotatable shaft, cables attached to said reels, pulleys attached to said frameworks over which said cables pass, each of said cables being attached at one end to the bottom of said posts, means for providing adjustable spacing of said frameworks including an upper telescoping member, means for adjustably securing said telescoping member, said shaft including further telescoping members, means for adjustably securing

said further telescoping members, said frameworks including base portions, casters journalled beneath said base portions, said frameworks including vertically positioned supports, said posts being slidable between said supports, guide straps attached to said posts straddling said supports, laterally positioned substantially lengthened sheet rock supports attached at the upper end of said posts, one of said reels including a toothed gear attached thereto, a latch member for securing said gear in selected position, said posts including still further telescoping portions for providing vertical adjustable means.

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