Dec. 12, 1950 J. M. JONES 2,533,813

TOBACCO ELEVATOR

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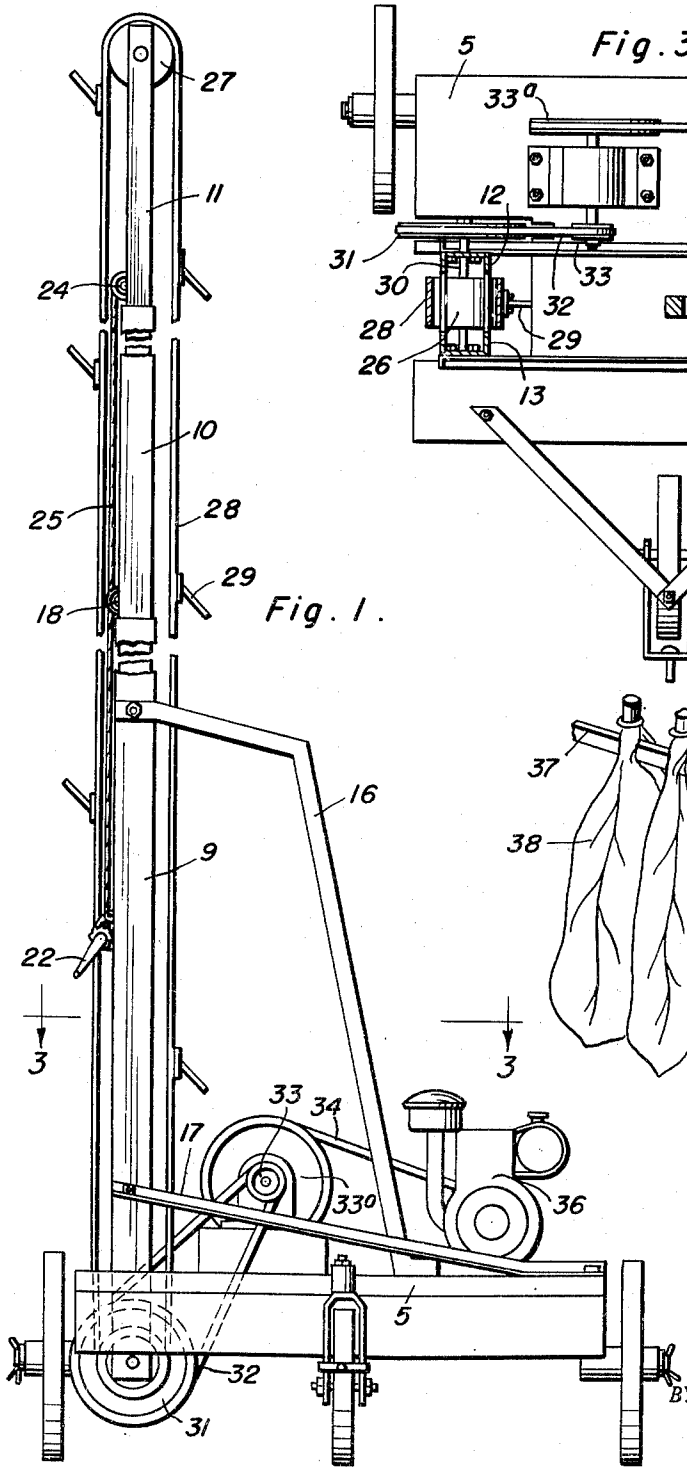


Fig. 1.

Fig. 3.

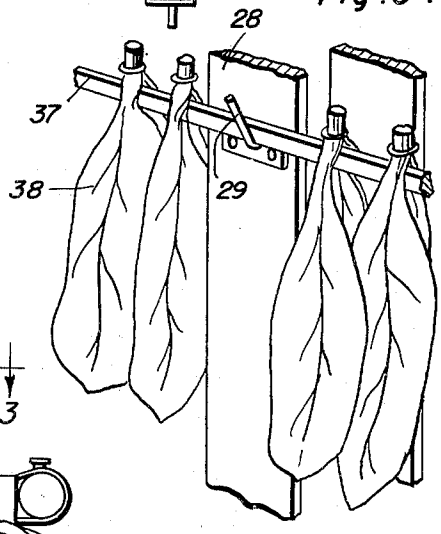


Fig. 5.

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Fig. 2.

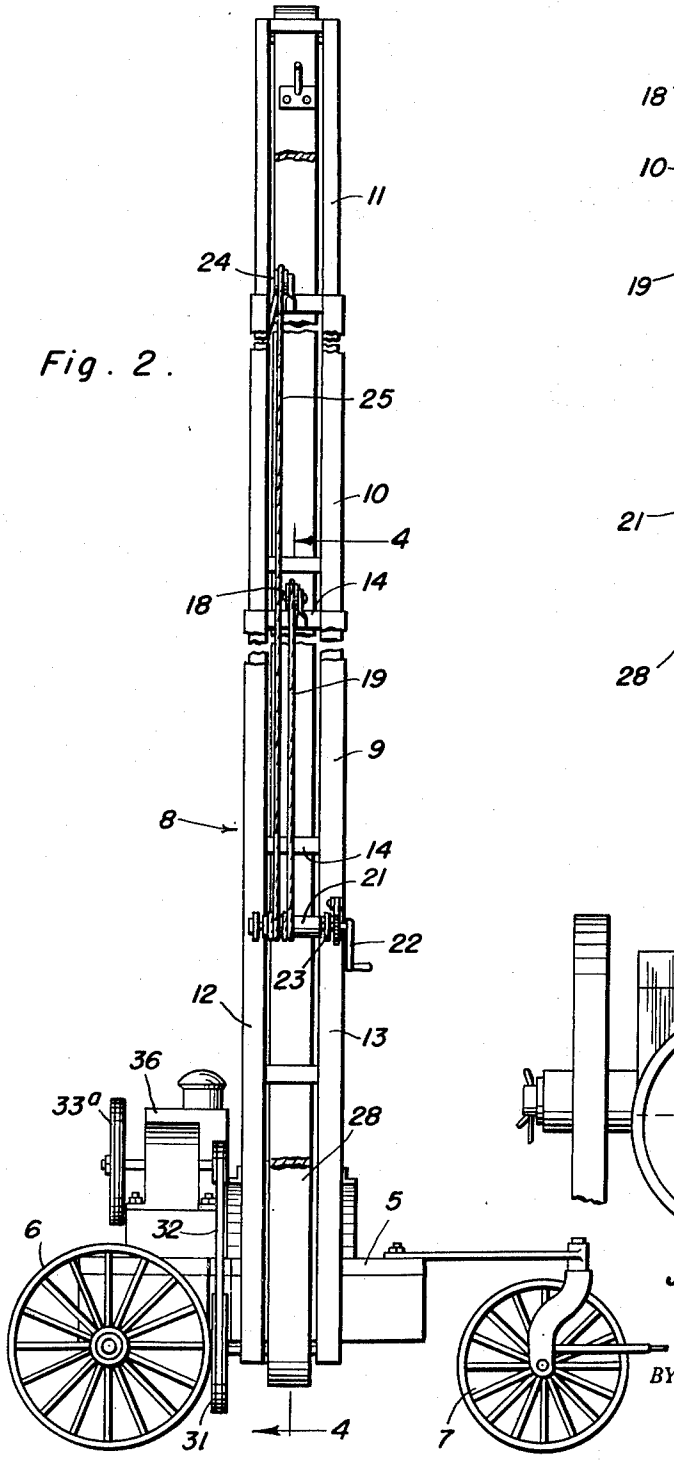
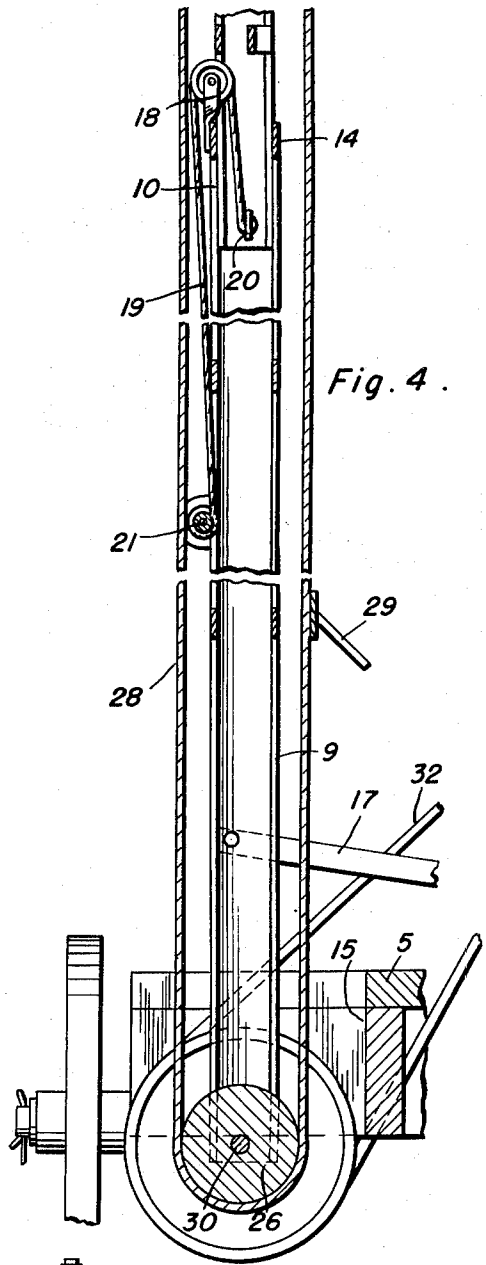


Fig. 4.



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TOBACCO ELEVATOR

Joseph M. Jones, Lexington, Ky.

Application May 27, 1948, Serial No. 29,599

2 Claims. (Cl. 198—139)

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The present invention relates to new and useful improvements in tobacco elevators for hoisting tobacco from a wagon or truck into a barn.

An important object of the invention is to provide a portable elevator for movement into a desired elevating position in a barn and including a power operated endless conveyor having hooks on which tobacco sticks are placed for carrying the tobacco upwardly in the barn.

A still further object is to provide a portable power operated elevator including a collapsible mast to facilitate its movement into and out of position in a barn.

A still further object is to provide an apparatus of this character of simple and practical construction, which is efficient and reliable in operation, relatively inexpensive to manufacture and otherwise well adapted for the purposes for which the same is intended.

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a front elevational view;

Figure 2 is a side elevational view with parts broken away and shown in sections;

Figure 3 is a horizontal sectional view taken substantially on a line 3—3 of Figure 1;

Figure 4 is an enlarged fragmentary vertical sectional view of the mast taken substantially on a line 4—4 of Figure 2; and

Figure 5 is an enlarged fragmentary perspective view of the endless conveyor showing one of the tobacco sticks supported thereon.

Referring now to the drawings in detail wherein for the purpose of illustration I have disclosed a preferred embodiment of the invention the numeral 5 designates a platform supported at its rear end by a pair of wheels 6 and supported at its front end by a swivelly mounted wheel 7 to facilitate the guiding of the platform into a desired working position.

A mast designated generally at 8 rises from one side of the platform 5, the mast including a lower section 9, an intermediate section 10 and an upper section 11 having telescopic movement one within the other. Each mast section includes opposed channel members 12 and 13 having their opposed edges spaced from each other and rigidly connected together by cross bars 14. The lower end of the lower mast section 9 extends downwardly through an opening 15 in one side of the platform and is suitably secured to

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the platform. Upper and lower braces 16 and 17 extend from the side portions of the lower section 9 to the platform to hold the mast upright.

A pulley 18 is journaled to the uppermost cross bar of the lower section 9 over which a cable 19 is trained with its upper end attached to an eye 20 at one side of the lower end of the intermediate section 10, the lower end of the cable being attached to a winch 21 mounted on the lower portion of the lower section 9 and operated by a crank handle 22. The winch is also provided with a conventional type of pawl and ratchet 23 for holding the winch against unwinding movement.

A pulley 24 is likewise journaled to the uppermost cross bar of the intermediate section 10 and over which a cable 25 is trained with its upper end attached to the lower end of the upper section 11 and its lower end also attached to the winch 21 for winding thereon. The operation of winch 21 simultaneously raises and lowers the intermediate section 10 and upper section 11 of the mast whereby both of said sections may telescope into the lower section 9 into a collapsed position.

A roller 26 is journaled between the channel members 12 and 13 of the lower section 9 at the lower end thereof and an upper roller 27 is likewise journaled between the channel members of the upper mast section 11 and on which an endless belt 28 travels for vertical movement. Hooks 29 are secured in vertically spaced apart relation on the outer surface of belt 28, the hooks comprising inclined rods which extend upwardly on the upwardly traveling flight of the belt on the outerside of the mast.

The lower roller 26 is secured to a shaft 30 journaled transversely of mast section 9 and having a pulley 31 secured to one end thereof and driven by a belt 32 from reduced pulleys 33 and 33a driven by a belt 34 from a pulley 35 of an internal combustion engine or other suitable power plant 36 mounted on platform 5.

In the operation of the device the mast 8 is raised to its fully extended position and conveyor belt 28 driven by the engine 36. Tobacco sticks 37 supporting bundles of tobacco 38 are placed on the upwardly traveling hooks 29 from a truck or wagon at the lower end of mast 8 to raise the tobacco into an elevated position in a barn where the sticks are removed by workmen in the top of the barn for storing therein.

In view of the foregoing description taken in conjunction with the accompanying drawings it

is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claims.

Having described the invention, what is claimed as new is:

1. An elevator comprising a portable platform, an extensible mast including a fixed section on said platform, a first vertically adjustable section slidable out of said fixed section, and a second vertically adjustable section slidable out of said first section, an endless flexible conveyor carried by said fixed and second sections conjointly for tightening by sliding of said first and second sections outwardly, and crank operated means common to said first and second sections for sliding said first section out of said fixed section and said second section out of said first section simultaneously.

2. An elevator comprising a portable platform,

an extensible mast including a fixed section on said platform, a first vertically adjustable section slidable out of said fixed section, a second vertically adjustable section slidable out of said first section, an endless flexible conveyor carried by said fixed and second sections conjointly for tightening by sliding of said first and second sections outwardly, and crank operated wind-up cable means common to said first and second sections for sliding said first section out of said fixed section and said second section out of said first section simultaneously.

JOSEPH M. JONES.

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