

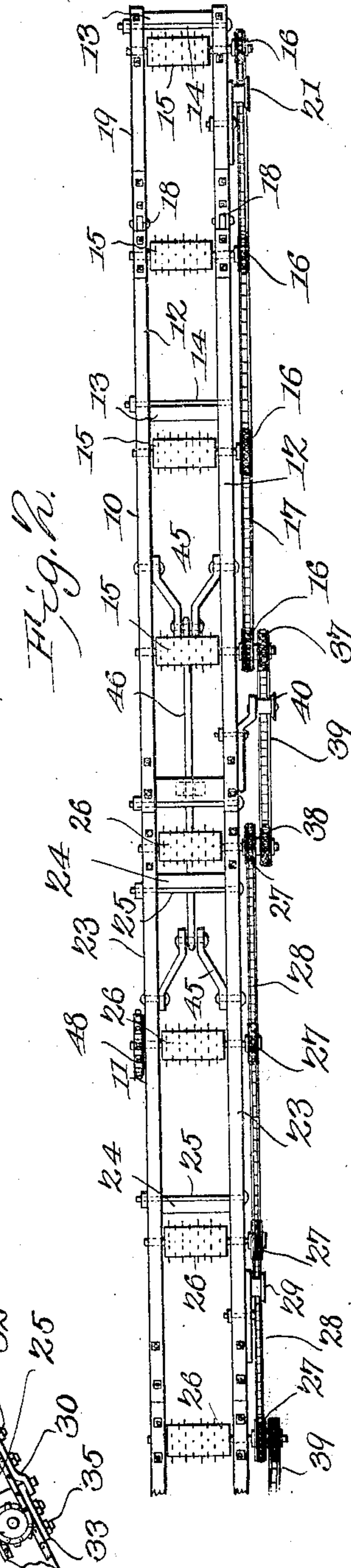
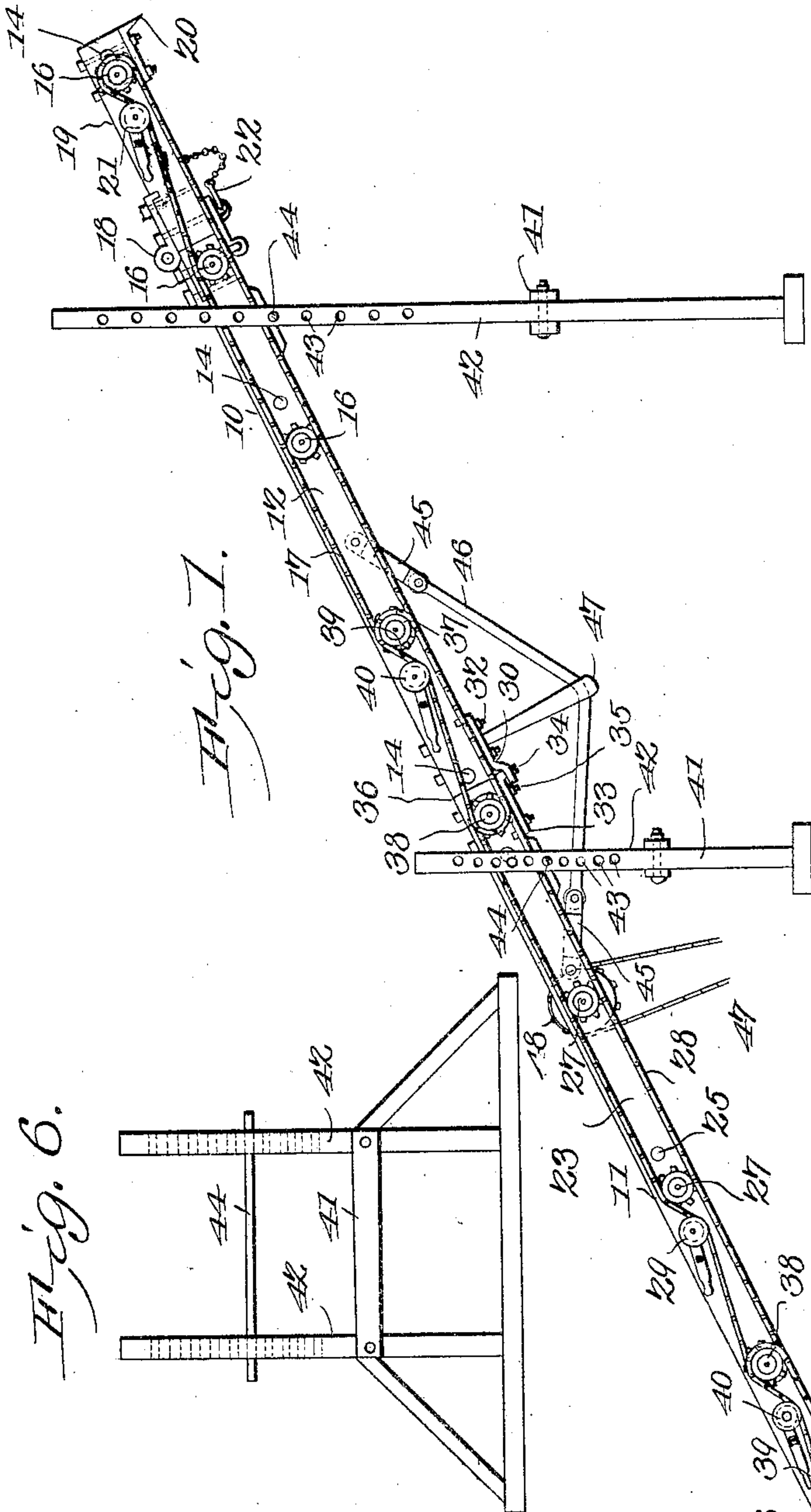
No. 836,938.

F. N. NELSON.  
CONVEYER.

APPLICATION FILED AUG. 11, 1905.

PATENTED NOV. 27, 1906.

2 SHEETS—SHEET 1.



Witnesses

*E. H. Stewart*  
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*Fred N. Nelson,* Inventor.  
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Attorneys

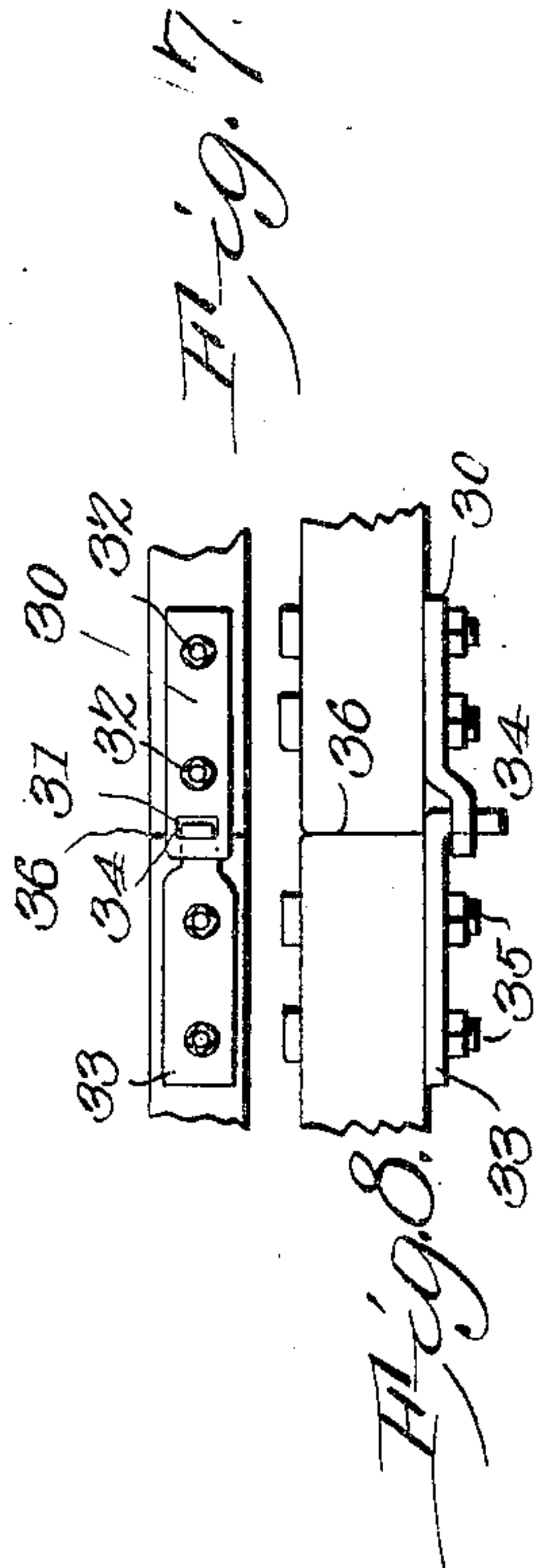
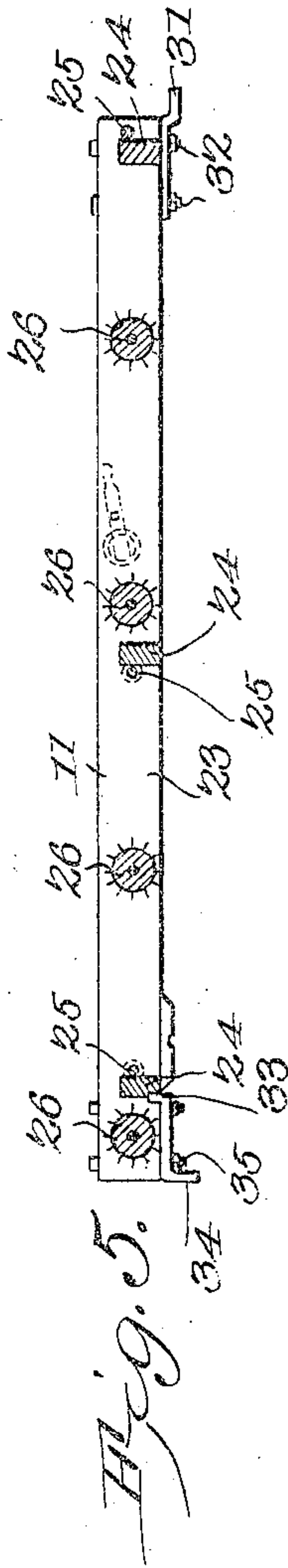
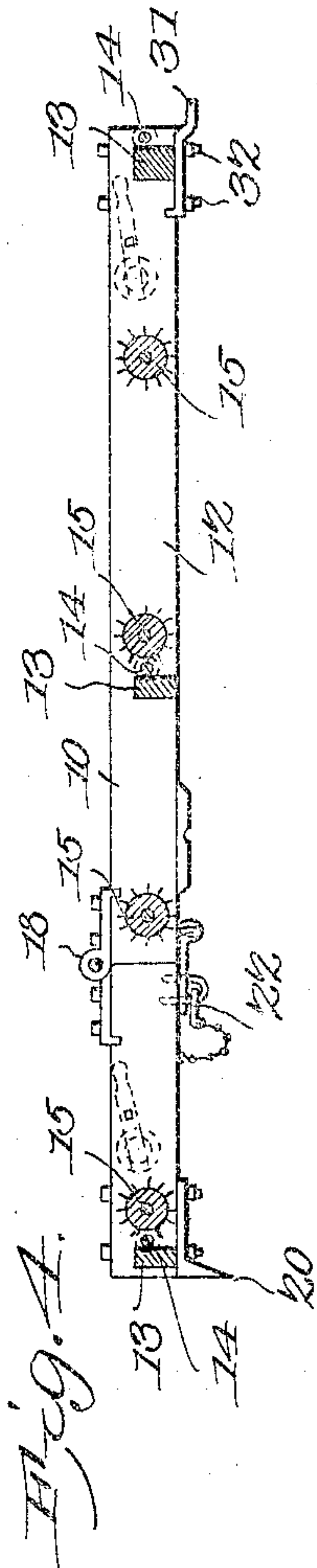
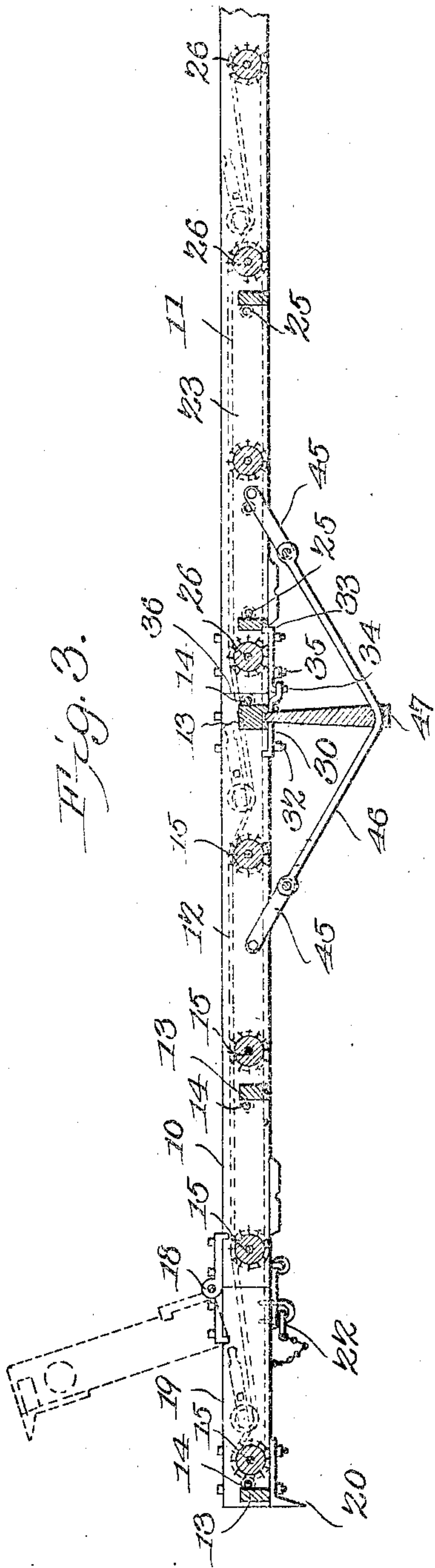
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2 SHEETS—SHEET 2



Witnesses  
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# UNITED STATES PATENT OFFICE.

FRED N. NELSON, OF McCOMB, MISSISSIPPI.

## CONVEYER.

No. 836,938.

Specification of Letters Patent.

Patented Nov. 27, 1906.

Application filed August 11, 1905. Serial No. 273,818.

*To all whom it may concern:*

Be it known that I, FRED N. NELSON, a citizen of the United States, residing at McComb, in the county of Pike and State of Mississippi, have invented a new and useful Conveyer, of which the following is a specification.

This invention relates to conveyers, and especially to that class of conveyers adapted for moving and loading logs, railroad-ties, wood, and the like.

The object of the invention is to provide a device of the class embodying new and improved features of utility, cheapness, simplicity, and efficiency.

A further object of the invention is to provide a conveyer comprising interchangeable sections which may be connected end to end in series to form a conveyer of any desired length.

The principal object of the invention is to provide a conveyer for loading railroad-ties onto cars, for which purpose a portable conveyer is required, to be transported from place to place and to be assembled to convey ties from piles at varying distances from the track.

A further object of the invention is to provide a conveyer having one end so hinged that it may be swung upwardly out of operative position to permit the passage of cars without disconnecting or removing the entire conveyer.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made without departing from the spirit or sacrificing any of the advantages of this invention.

In the drawings, Figure 1 is a view in side elevation of the improved conveyer assembled and in operative position. Fig. 2 is a top plan view of the conveyer. Fig. 3 is a longitudinal sectional view of the conveyer. Fig. 4 is a detail longitudinal sectional view of the upper end section. Fig. 5 is a detail longitudinal sectional view of the intermediate interchangeable sections. Fig. 6 is a view in side elevation of the adjustable scaffold for supporting the conveyer. Fig. 7 is an inverted plan view of means employed for connecting the several sections. Fig. 8 is a

view in side elevation of the section-connecting means.

Like characters of reference indicate corresponding parts in all of the figures of the drawings.

In its preferred embodiment the improved conveyer forming the subject-matter of this application comprises an upper end section (shown as a whole at 10) and any desired number of interchangeable sections, (designated as a whole by 11.) The section 10 comprises parallel side bars 12, spaced as by the braces 13 and rigidly connected as by the bolts 14. Between the side bars and journaled therein are the spiked rollers 15, having their trunnions extending through one side bar and provided thereon with sprockets 16, upon which a chain 17 is mounted to connect the several sprockets and operate the several rollers simultaneously. The upper end of the section 10 is provided with hinges 18, by means of which a portion of the side bars (designated as 19) and the upper extreme roller may be swung upwardly, as indicated in outline in Fig. 3, to permit the passage of a car. For engagement with a car and to hold the conveyer in position the extremity of the section 10 is provided with downwardly-depending spurs 20, and to permit the movement of the end 19 a chain-tightener 21 is employed. Any approved means, as the hook 22, may be employed to hold the end 19 rigid with the side bars 12.

The interchangeable sections 11 comprise side bars 23, braces 24, bolts 25, and spiked rollers 26, similar to the corresponding parts of the section 10 and similarly assembled. The rollers 26 are also provided with sprockets 27, upon which is mounted the chain 28, connecting all of said sprockets and tightened by a chain-tightener 29.

To connect the several sections, the side bars at one end are provided with a plate 30, having a transverse eye or opening 31 and secured, as by bolts 32, while the opposite end of each side bar is provided with a plate 33, having a downturned lug or hook 34 engaging within the eye 31 and secured to the side bars by the bolts 35. When the lug 34 is engaged within the eye 31, the ends of the sections abut, as at 36, thereby resisting a strain from above. The lower extreme roller of the section 10 is provided with a sprocket 37 adjacent and outside the sprocket 16, and the end rollers of the sections 11 are provided with



sprockets 38, similarly disposed, and a chain 39 is used to connect the extreme rollers of the several connected sections, and a chain-tightener 40 is provided, so that the chain 39 may be put on and off conveniently.

To support the conveyer at the desired height and angle, scaffolds 41 may be provided, having side bars 42 spaced to receive the sections therebetween and provided with a vertical series of holes 43, through any aligned pair of which a bar 44 may be inserted beneath and to support the sections. When the several sections are united, it is sometimes found desirable to provide additional means for stiffening the side bars, in which case links 45 are secured to the side bars and carry a truss 46, extended over a strut 47, which bears against one of the braces 13.

Any approved power for operating may be connected in any approved manner, as by a chain 47, leading from the motor to a sprocket 48, secured to the trunnion of any one of the rollers.

From the foregoing description it is believed that the operation of the conveyer will be fully understood.

Having thus described the invention, what is claimed is—

1. A conveyer comprising interchangeable sections embodying spaced side bars, rollers journaled transversely between and having trunnions extending beyond the side bars, wheels carried upon the extended trunnions, a flexible member connecting the wheels to rotate simultaneously, auxiliary wheels carried by the trunnions of the end rollers, means to connect the sections end to end, and a flexible member connecting the auxiliary wheels.

2. A conveyer comprising interchangeable sections embodying spaced side bars, rollers journaled transversely between and having trunnions extending beyond the side bars, sprockets carried upon the extended trunnions, a chain passing about and connecting

the several sprockets to rotate simultaneously, auxiliary sprockets carried by the trunnions of the end rollers, means to connect the sections end to end, a chain connecting the auxiliary sprockets, and means carried by one section to tighten the connecting-chain upon the sprockets.

3. In a conveyer, interchangeable sections embodying spaced side bars, rollers journaled in the side bars, means for connecting the sections end to end and a truss spanning and supporting the juncture.

4. In a conveyer, interchangeable sections embodying spaced side bars, rollers journaled in the side bars, means for connecting the sections end to end, links carried by the sections, and a truss-rod secured to the links and spanning and supporting the juncture of the sections.

5. A conveyer comprising interchangeable sections embodying spaced side bars, spiked rollers journaled in the side bars, driving mechanism without the side bars connecting the several rollers means connecting any desired number of sections end to end, means connecting the driving mechanism of one section to that of the next, spaced uprights disposed upon opposite sides of the conveyer and provided each with a vertical series of openings through which a rod is disposed beneath and supporting the conveyer at any approved angle, hinges in the side bars of one extreme section whereby an end portion may be swung upwardly out of operative position, means for securing the hinged portion in operative position and means for operating the several rollers simultaneously.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

FRED N. NELSON.

Witnesses:

L. H. DAWSON,  
S. HIBBERT.