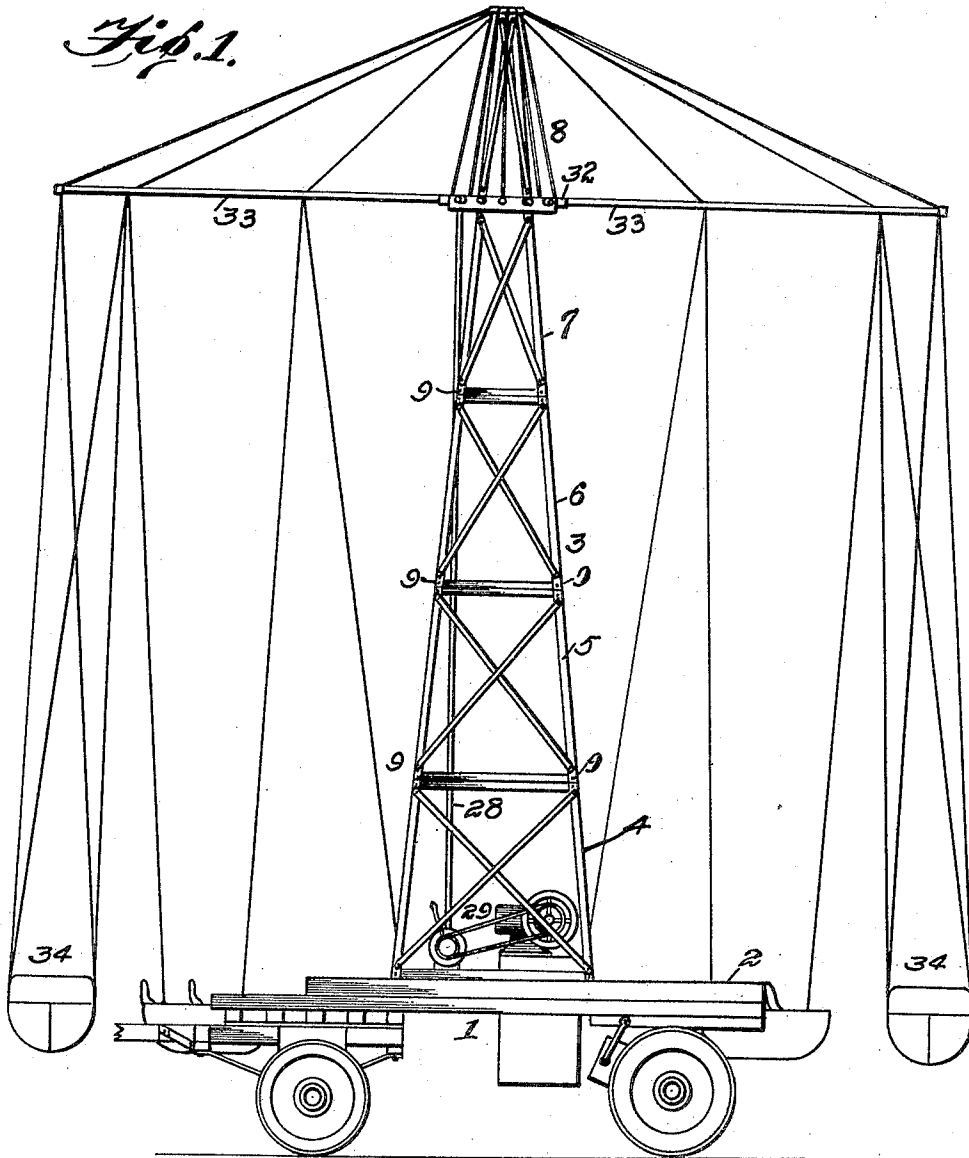


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TRUCK SUPPORTED KNOCKDOWN CIRCLE SWING.
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Patented Dec. 20, 1921.
3 SHEETS—SHEET 1.

Fig. 1.



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3 SHEETS—SHEET 2.



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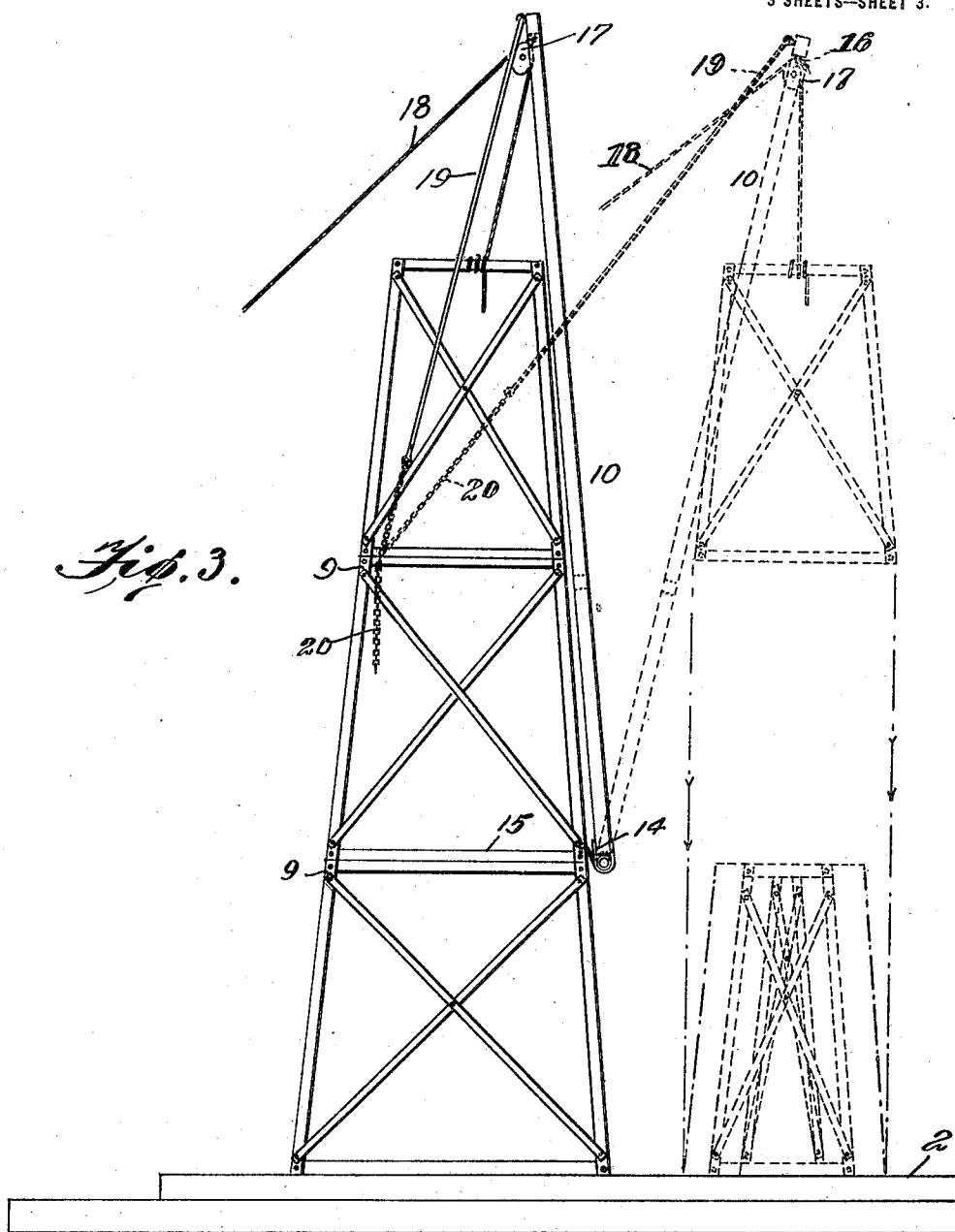
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UNITED STATES PATENT OFFICE.

WILLIAM A. COLGATE, OF GARDEN CITY, NEW YORK.

TRUCK-SUPPORTED KNOCKDOWN CIRCLE-SWING.

1,400,802.

Specification of Letters Patent. Patented Dec. 20, 1921.

Application filed August 26, 1920. Serial No. 403,036.

To all whom it may concern:

Be it known that I, WILLIAM A. COLGATE, a citizen of the United States, residing at Garden City, L. I., in the county of Nassau and State of New York, have invented certain new and useful Improvements in Truck-Supported Knockdown Circle-Swings, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to a truck-supported knockdown circle swing, and has for its object the provision of comparatively simple and efficient means for assembling the sections of a tower, or taking down or disassembling the sections, placing or positioning these sections preferably upon a platform or a body of a motor truck.

Another object of the invention is the construction of an apparatus that embodies peculiar and efficient means for producing quickly assembled and disassembled parts upon a motor truck for suspending swings or boat-like bodies upon a motor truck for amusement purposes.

With these and other objects in view, my invention comprises certain novel combinations, constructions and arrangements of parts as will be hereinafter described, illustrated in the accompanying drawings, and more particularly pointed out in the appended claims.

In the drawings:

Figure 1 is a view in side elevation of an apparatus constructed in accordance with the present invention, the hoisting frame for elevating and lowering the sections being removed.

Fig. 2 is a top plan view of the motor truck, showing the sections of the tower disassembled, or resting upon the platform of the truck, as they appear in transportation.

Fig. 3 is a view in side elevation of the tower, with the hoisting apparatus attached thereto, showing in dotted lines the position of the sections upon the platform, as well as the manner of lifting or elevating the sections and placing the same in position, one above the other, to produce the sectional tower.

Fig. 4 is a perspective view of one of the sections of the tower.

Fig. 5 is a perspective view of the hoisting frame.

Referring to the drawings by numerals, 1 designates the truck, and 2 the platform

thereof. The sectional tower 3, carried by the platform 2, comprises the base section 4, the intermediate sections 5, 6, and 7, and the top section 8. These sections are detachable, being held together, at 9, by removable plates of any ordinary structure or arrangement, as I make no claim to these plates 9.

Upon removing or detaching the plates 9 (Figs. 1 and 5), the sections can be stacked one within the other, as shown in dotted lines in Fig. 5, or the sections can be elevated into place upon the truck, in the following manner: The hoisting frame 10 includes a body having a large opening 11, through which the sections may swing from the dotted position shown in Fig. 5 into the position shown in full lines, the sections being arranged one above the other. The lower end of the frame 10 is provided with brackets 12, and a pipe 13 is secured at its ends within these U-shaped brackets 12; rotatably mounted upon the pipe 13 is a pair of supporting hooks 14; these hooks 14 are hooked over an edge 15 (Figs. 5 and 6), detachably supporting the frame upon a section of the tower. To the eye-bolt 16 is secured a pulley 17, and passed over the pulley is a hoisting cable 18; the inner end of the cable is tied around the top of the section that is to be lifted in place or lowered, as desired, and the outer end of the cable is grasped by the operator, or may be connected to the drum of a windlass, as desired. An anchor rod 19 is connected, at its upper end, to the top of the frame 10, and the lower end of the rod is connected to an anchor chain 20, which chain is suitably fastened to the section that has already been secured in place; by slackening up on the anchor chain 20, the hoisting frame can swing out over the sections on the platform 2 to be lifted, then the inner end of the hoisting cable can be attached to a section and the section lifted and swung through the opening 11 into place upon the tower, then the plates 9 are fastened in position, and the sections are thereby assembled. To disassemble or "knock-down" the sections, the plates 9 are removed in order, and through the use of the hoisting cable 18, the anchor rod 19 and chain 21 and the hoisting frame 10, each section can be lowered, one at a time, and stacked in a nested position upon the platform 2, as indicated in full lines in Fig. 2 and in dotted lines Fig. 5.

From actual experience I found that my

efficient hoisting apparatus is a great advantage in the quick assembling or disassembling of the sections of the tower. Further, I found that the top section structure makes a very efficient and easily-operated circle swing.

While I have described the preferred embodiment of my invention, and have illustrated the same in the accompanying drawings, certain minor changes or alterations may appear to one skilled in the art to which this invention relates, during the extensive manufacture of the same and I, therefore, reserve the right to make such alterations or changes as shall fairly fall within the scope of the appended claims.

What I claim is:

1. In an apparatus of the class described, the combination with a sectional tower, of a hoisting frame provided with hooks, said hooks attached to said tower and permitting the hoisting frame to be removed against the tower or swung, at its upper end, away from the tower, a pulley and a hoisting cable attached to the upper end of the hoisting frame, said cable adapted to be attached to a section of the tower for lifting and swinging the section through the hoisting frame for positioning the section, and anchoring or holding means attached to the frame and a portion of the tower.

2. In an apparatus of the class described, the combination with a sectional tower, of a hoisting frame including a body provided with an opening, and with U-shaped brackets on its lower end, a pipe in said brackets, pivotally mounted hooks on the pipe, an

eye-bolt attached to the upper end of the body above the opening, said hooks adapted to engage the side of a section for holding the hoisting frame in a pivotally mounted position upon the tower, a pulley and a hoisting cable supported upon said eye-bolt, said hoisting cable adapted to be attached to a section for raising or lowering the section by moving the same through the opening, an anchoring rod attached at its upper end to the upper end of the body, and an anchoring chain attached to the lower end of the anchoring rod and adapted to be attached to a portion of the tower for securing the hoisting frame in different hoisting positions with respect to the tower, substantially as shown and described.

3. In an apparatus of the class described, the combination with a support, of a hoisting frame detachably connected at its lower end to said support, said hoisting frame provided with a comparatively large opening for allowing a section of a tower to pass therethrough, means attached to the hoisting frame and to the support for retaining the frame in different adjusted positions with reference to the support, and means attached to the top of the frame having a portion adapted to swing through the opening and be attached to a section of the tower for adjusting the section or raising or lowering the same with respect to the support.

In testimony whereof I hereunto affix my signature.

WILLIAM A. COLGATE.