

W. C. CARLTON & J. H. MINER.

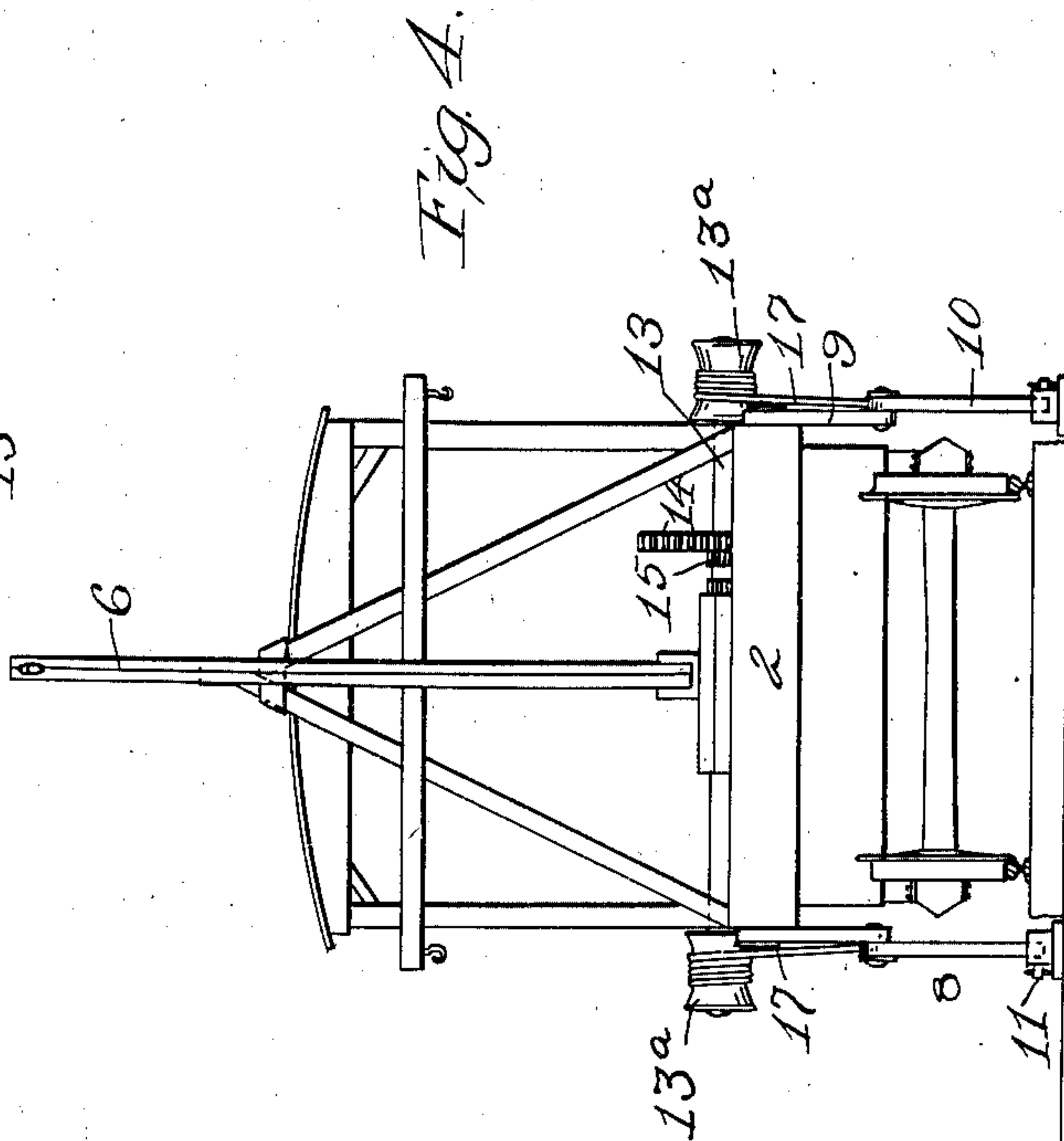
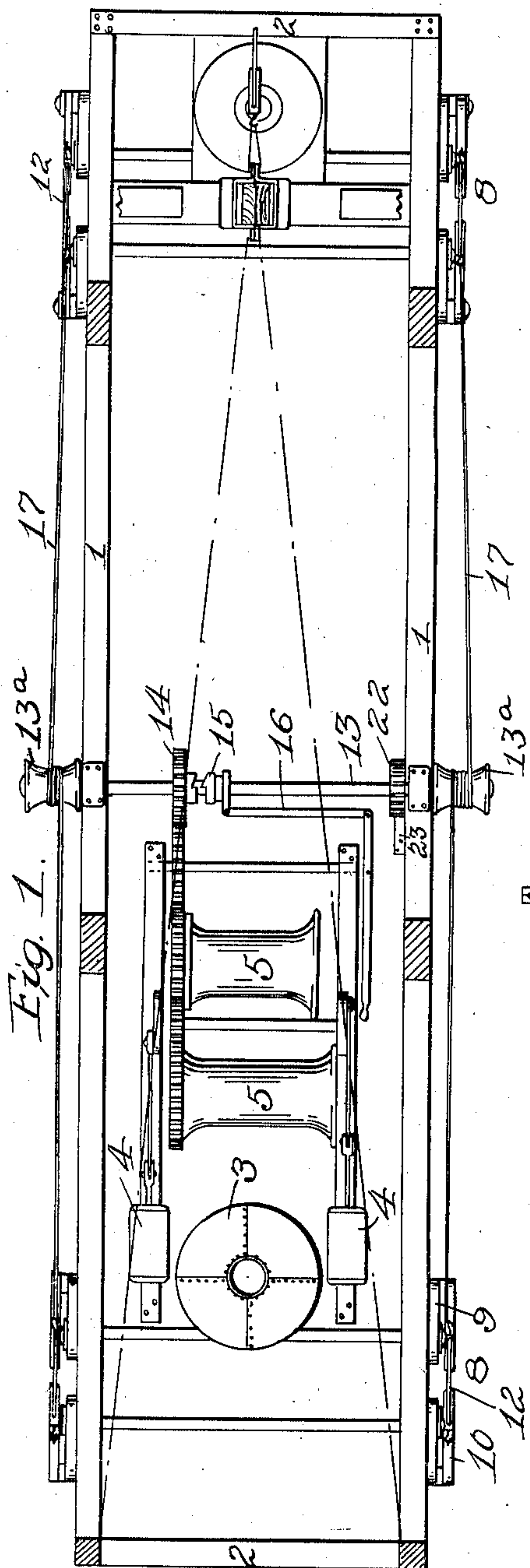
SKIDDER RAISING DEVICE.

APPLICATION FILED NOV. 15, 1910.

986,440.

Patented Mar. 14, 1911.

2 SHEETS—SHEET 1.



Attest.
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Edward N. Sartor

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per James M. Fisher
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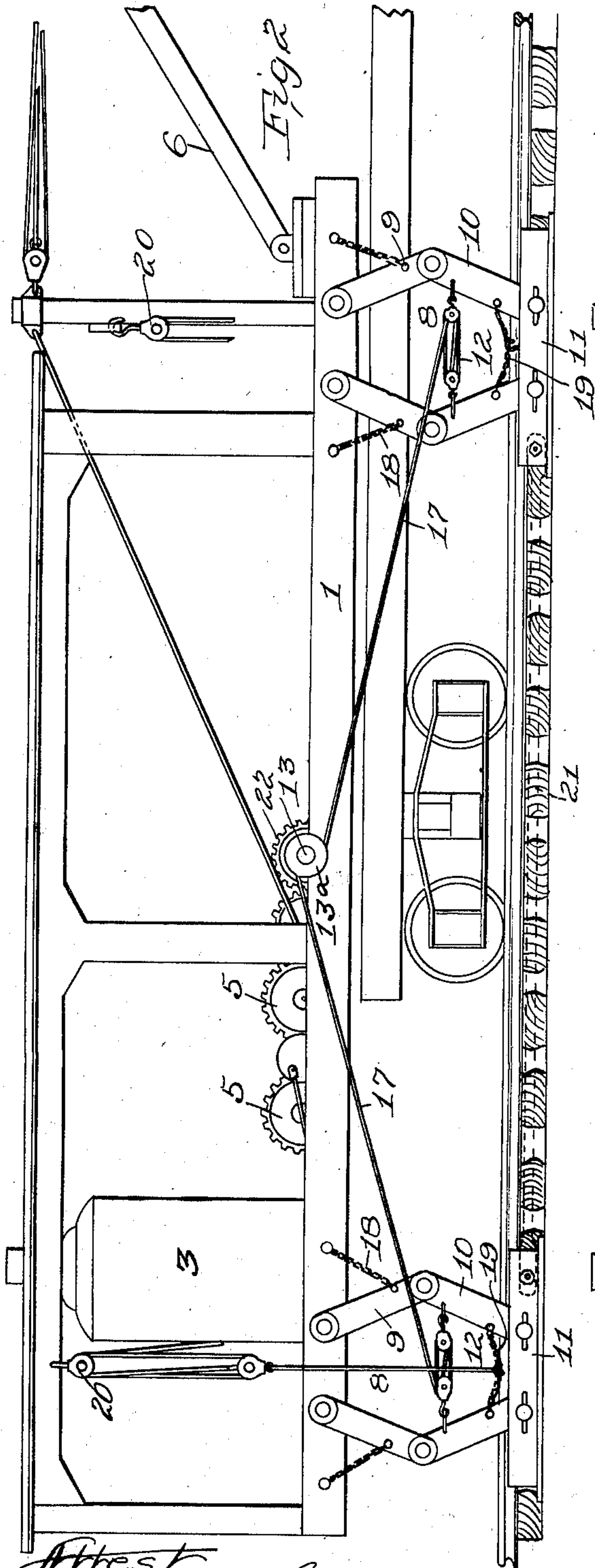
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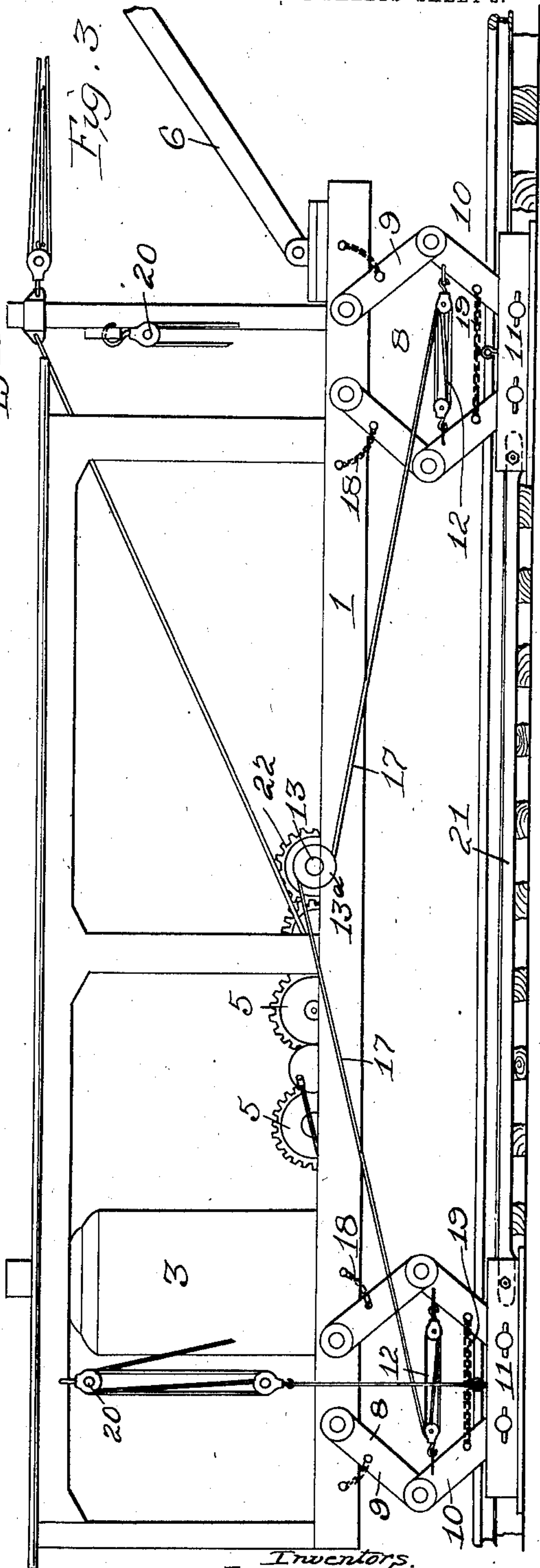
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2 SHEETS—SHEET 2.



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UNITED STATES PATENT OFFICE.

WILLIAM CARTER CARLTON, OF CARSON, LOUISIANA, AND JAMES H. MINER, OF LUMBERTON, MISSISSIPPI.

SKIDDER-RAISING DEVICE.

986,440.

Specification of Letters Patent. Patented Mar. 14, 1911.

Application filed November 15, 1910. Serial No. 592,588.

To all whom it may concern:

Be it known that we, WILLIAM C. CARLTON and JAMES H. MINER, citizens of the United States, residing at Carson, Louisiana, and Lumberton, Mississippi, respectively, have invented certain new and useful Improvements in Skidder-Raising Devices, of which the following is a specification.

Our invention relates to devices for loading logs upon cars and its object is to provide an improved device of simple and economical construction of the same whereby the device is held above the car when in use, and when not in use the device may be lowered to rest upon an empty car for transporting it from place to place.

The invention includes the features of construction and combination and arrangement of parts hereinafter described and particularly pointed out in the claims.

The invention is illustrated in the accompanying drawing in which:

Figure 1 is a plan view thereof; Fig. 2 is a side elevation showing the platform raised; Fig. 3 is a like view showing the platform lowered. Fig. 4 is a front elevation with the platform resting on the car.

In these drawings the numeral 1 designates side beams and 2 cross beams secured to the side beams so as to form the frame of a platform on which rests the boiler 3, the engines 4 and the hoisting drums 5 which are operated by the engines. 6 designates the crane also carried by the platform and connected with the drums 5 by the cables. The platform is of any suitable length, and is of a width somewhat greater than a car so that it can span the same. Secured to the platform are the supporting legs 8, each leg consisting of two pairs of links 9, 10, pivoted to the platform at one of their ends and at the other end to a shoe 11. The links of each pair are pivotally connected together at their adjoining ends and the free ends of the upper links are pivoted to the platform and the free ends of the lower links are pivoted to the shoe 11; thus a collapsible leg is provided for the platform composed of toggle levers. Tackles 12 are provided for bringing the pairs of links toward each other to raise the platform, one of these being located between the links of each leg and preferably connected to the lower links of the legs. The tackles are operated by carrying their ropes 17 to drums 13^a on shaft 13

carried by the platform and operated by suitable gearing 14 from the hoisting mechanism. The shaft is thrown into and out of engagement with the gears by a clutch 15 controlled by a lever 16.

18 are check chains for preventing the links from moving too far toward each other, and 19 is a safety chain for preventing the links from moving too far in the opposite direction.

After the platform is lowered to rest on the car the shoes 11 must be raised off the ground to permit movement of the car with the device thereon and to do this we provide tackles 20 which are secured to said shoes and are carried by the platform. If desired we may connect the shoes together on each side of the car by a rod 21, as shown in Figs. 2 and 3.

The operation is as follows: Supposing the platform to be loaded upon a car and conveyed thereon to the place where the logs are to be loaded. The tackles 20 are allowed to run free so that the shoes 11 will drop onto the ground. The shaft 13 is then put into engagement with the gears 14 by means of the clutch 15 so as to take up the cables 17 to actuate the tackles 12 to bring the links of each leg toward each other whereby the platform will be raised off the car. To lock the parts in this position the shaft 13 is provided with a toothed wheel 22 with which engages a pawl 23 carried by the platform. The car may now be moved from under the platform and loaded by means of the crane.

To load the platform on an empty car, the latter is pushed under the same and the pawl disengaged from the wheel 22 when the weight of the platform will cause the cables 17 to unwind from the shaft 13 as the links of the legs are forced apart. When the platform is resting on the car, the tackles 20 are actuated to raise the shoes off the ground.

What we claim is:—

1. A machine for loading logs on cars comprising a platform, legs therefor, each leg being formed of a pair of toggle levers and means for actuating the levers to raise and lower the platform.

2. A machine for loading logs on cars comprising a platform, legs therefor, each leg being formed of a pair of toggle levers and a shoe, a tackle connected to the levers of each leg and means for actuating the tackles to raise the platform.

3. A machine for loading logs on cars comprising a platform, legs therefor, each leg comprising a pair of toggle levers and a shoe carried by the levers, a tackle connecting the
5 levers of each leg, a shaft on the platform, drums on the shaft to which the tackle cables are connected, and means for rotating the shaft.

4. A machine for loading logs on cars comprising a platform, extensible legs therefor,
10 means for actuating the legs to raise and lower the platform and a rod connecting the legs together on each side of the platform.

In testimony whereof, we affix our signatures, in the presence of witnesses.

WILLIAM CARTER CARLTON.
JAMES H. MINER.

Witnesses as to the signature of William Carter Carlton:

SAML. ROBERT,
J. T. LANE.

Witnesses as to the signature of James H. Miner:

C. H. HYDE, Jr.,
C. E. LANSON.
