

(No Model.)

O. HONEGGER.
GATE.

No. 597,285.

Patented Jan. 11, 1898.

FIG. 1.

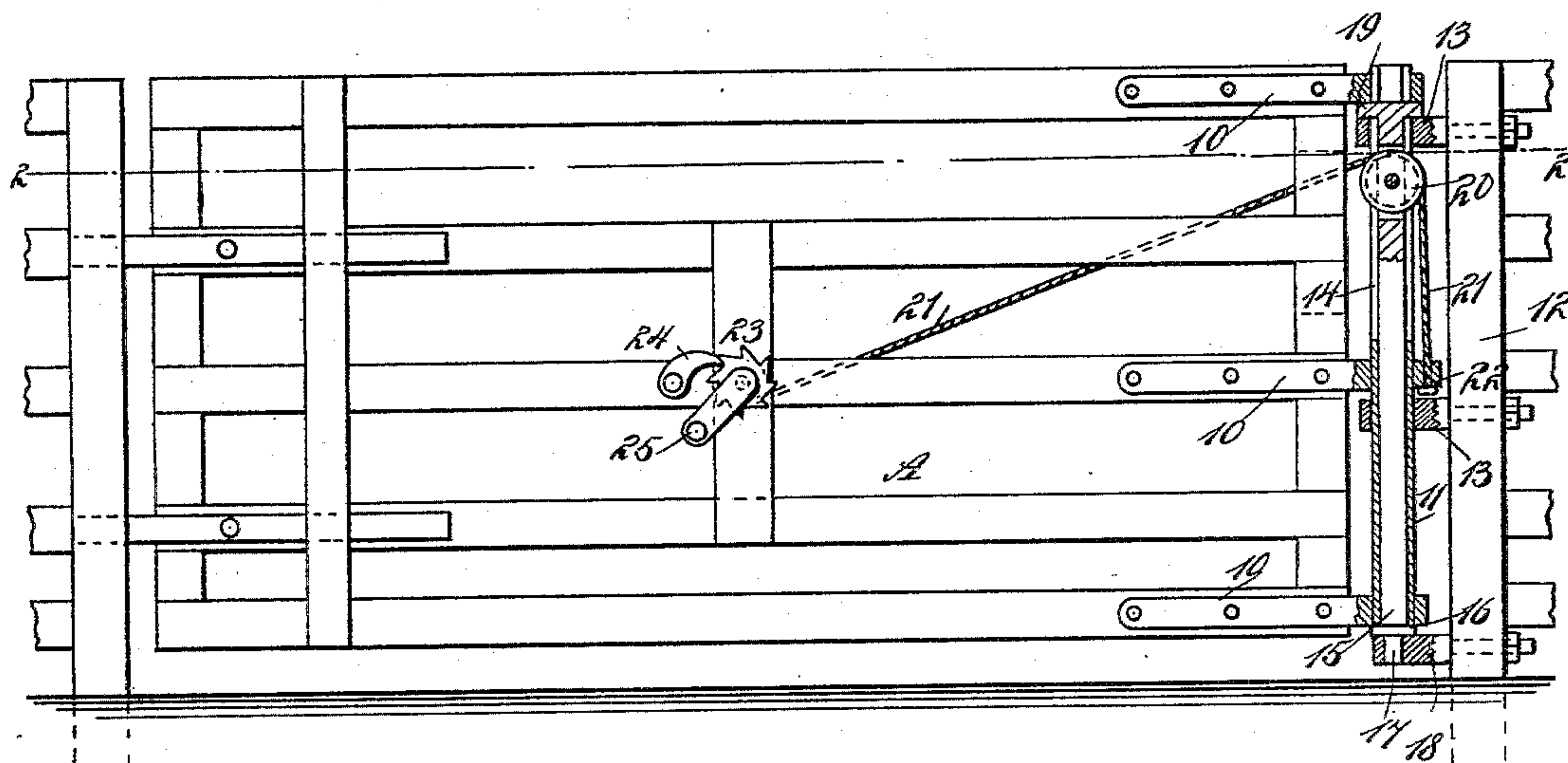


FIG. 2.

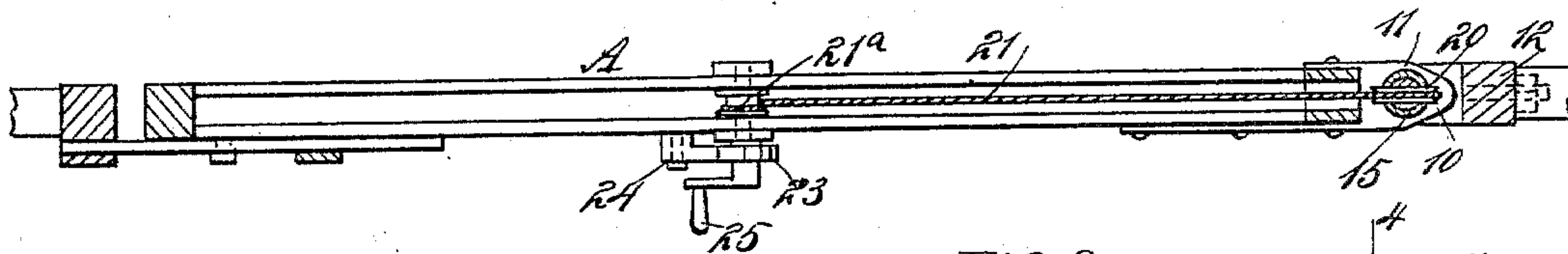
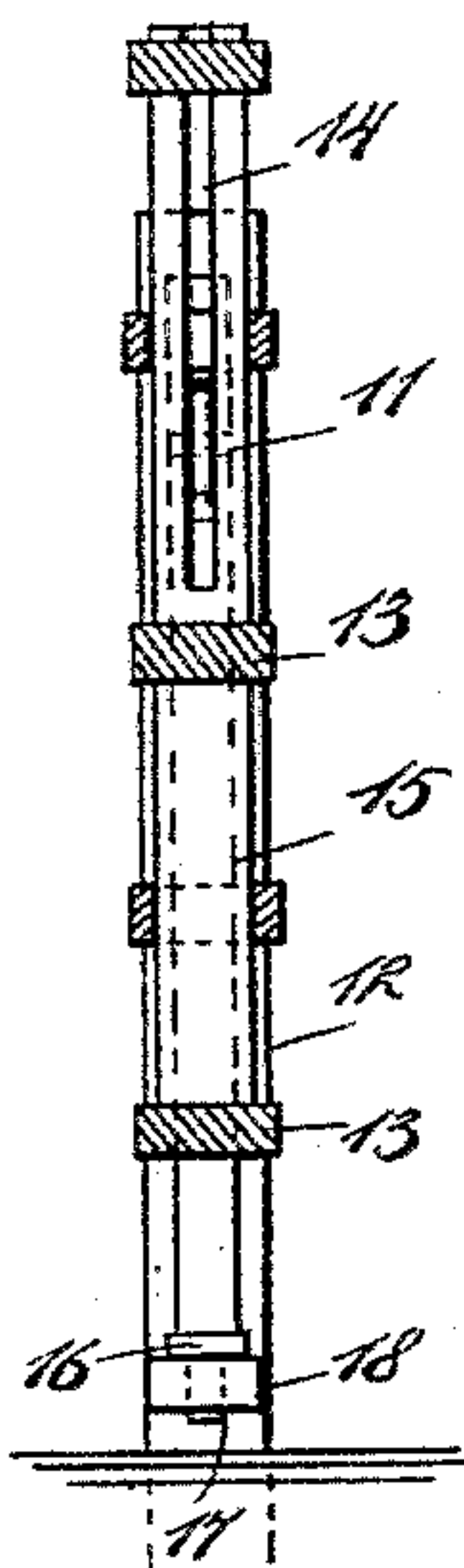


FIG. 4.



WITNESSES:

Donn Turtchell
Sted Atkes

FIG. 3.

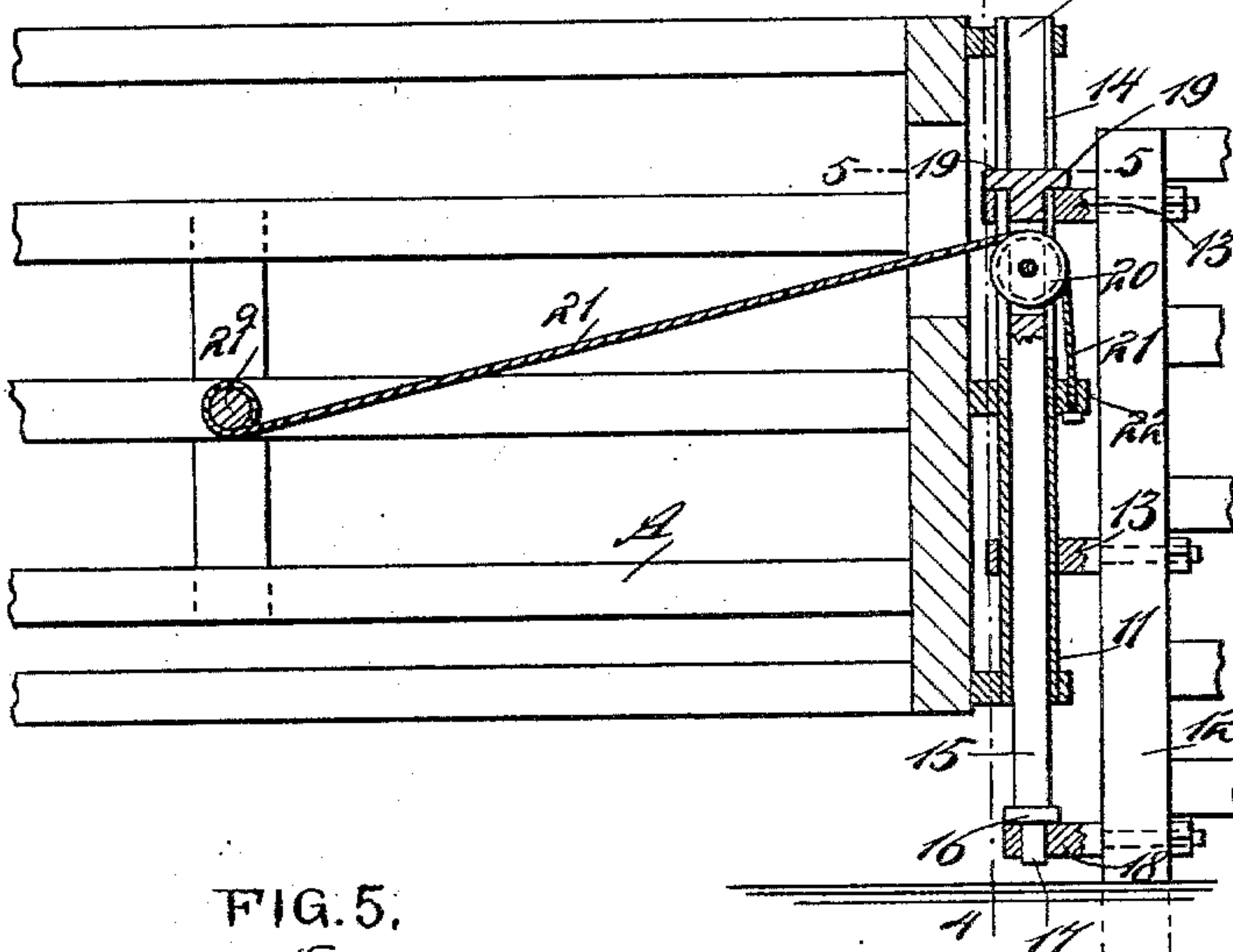
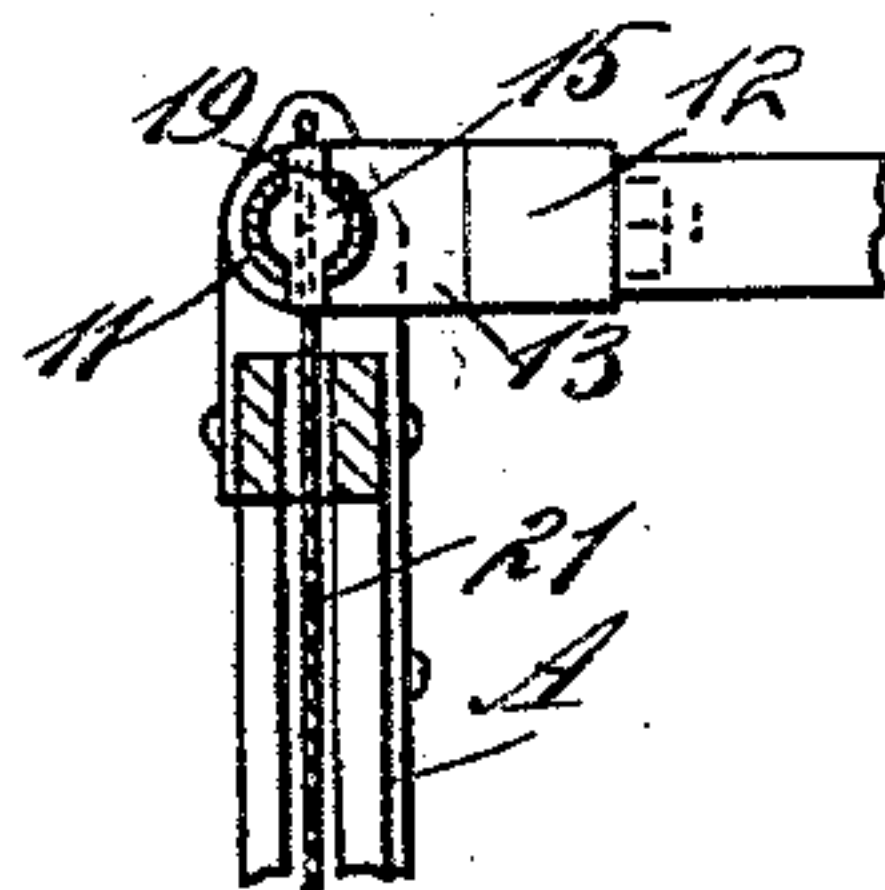


FIG. 5.



INVENTOR

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UNITED STATES PATENT OFFICE.

OTTO HONEGGER, OF FAIRMONT, MINNESOTA.

GATE.

SPECIFICATION forming part of Letters Patent No. 597,285, dated January 11, 1898.

Application filed May 11, 1897. Serial No. 636,007. (No model.)

To all whom it may concern:

Be it known that I, OTTO HONEGGER, of Fairmont, in the county of Martin and State of Minnesota, have invented a new and useful Improvement in Gates, of which the following is a full, clear, and exact description.

The object of my invention is to provide a means for raising a gate so as to clear any obstruction and at the same time admit of the gate being swung inward or outward, as required.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a front elevation of the gate closed and in its lowest position, the swing-support of the gate being shown in section. Fig. 2 is a horizontal section taken substantially on the line 2 2 of Fig. 1. Fig. 3 is a side elevation of a portion of the gate in an elevated position, its swinging support being also in section. Fig. 4 is a vertical section on the line 4 4 of Fig. 3; and Fig. 5 is a section taken on the line 5 5 of Fig. 3, the gate being shown as open.

Strap-hinges 10 are secured to the gate in any suitable or approved manner, and the said strap-hinges at their eye portions surround and are attached to a vertical tube 11. The said tube is made to pass through guides 13, which are secured to a swing-post 12, and at the top of the tube at diametrically opposite sides a vertical recess 14 is made, which extends through the top of the tube, as illustrated. A rod 15 is loosely placed within the tube 11, being adapted to turn therewith, and the tube is free to slide on the rod. The rod 15 is provided at its lower portion with a flange 16, against which the bottom of the tube bears, the flange resting upon a support 18 at the bottom of the gate-post, and the lower end 17 of the rod 15 is reduced and pivoted in the support 18. At the top of the rod two oppositely-disposed pins 19 are placed, which pins may be integral with the rod and extend out through the slots 14 in the tube 11.

At the slotted portion of the tube 11 a pul-

ley 20 is secured to the said rod, the said pulley being preferably placed slightly below the top portion of the rod. A rope 21, chain, or its equivalent is attached to an extension 22 from the central hinge 10. This rope or chain is passed over the pulley and is secured to a drum 21^a, to which a ratchet-wheel 23 is shown as attached, engaged by a pawl 24, secured upon the gate, the drum being turned through the medium of a crank 25 or a like device.

In operation when the gate is to be raised the drum 21 is turned so as to draw the gate upward, the tube 11 sliding upon the rod 15, and when the gate has reached the desired level it will turn as freely as when in its normal or lower position. The tube and rod turn with the gate sufficiently to keep the pulley 20 in proper position relative to the pivoted end of the gate. The drum shown may be substituted by any form of take-up device.

The entire construction of the gate is simple, durable, and economic, and the application may be readily made to any form of gate.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with a gate, a swing-post and a tube upon which the gate is hung, the said tube being passed through guides connected with the swing-post, of a rod pivoted to the swing-post and passed through said tube, a pulley carried by said rod and extending out through an opening in the tube, a rope or chain attached to an extension from the gate and passed over said pulley, and means for winding the said rope or chain.

2. The combination, with a gate, a swing-post, hinges projected from the gate, a tube attached to said hinges, and guides extending from the swing-post surrounding the said tube, the tube being provided with a slot in its upper end at opposite sides, of a rod loosely entered into the said tube and supported from the swing-post, the said rod being arranged to turn with the tube and the tube being adapted to slide on the said rod, a pulley attached to the rod, a rope or chain connected with a central hinge of the gate and passed over said pulley, and a take-up device with which the rope or chain is connected, the said take-up device being carried by said gate.

3. The combination, with a gate, hinges

having eyes attached to the gate, a swing-post, and a tube held in the eye portions of the hinges, the said tube being provided with slots in its upper end in opposite sides, of a rod 5 fitted loosely in said tube, a support for the said rod attached to the swing-post, pins projected from the rod, passed through the slots in the tube, a pulley carried by the rod, also extending through the slots in the tube, and a rope or chain attached to one of the hinges 10 of the gate, said rope or chain being carried over said pulley, a winding device with which said rope or chain is connected, and a lock for said winding device.

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Witnesses:

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C. H. BONNEY.