No. 784,629. PATENTED MAR. 14, 1905.

M. REESE.

FENCE STRETCHER.

APPLICATION FILED AUG. 22, 1904.

2 SHEETS—SHEET 1.

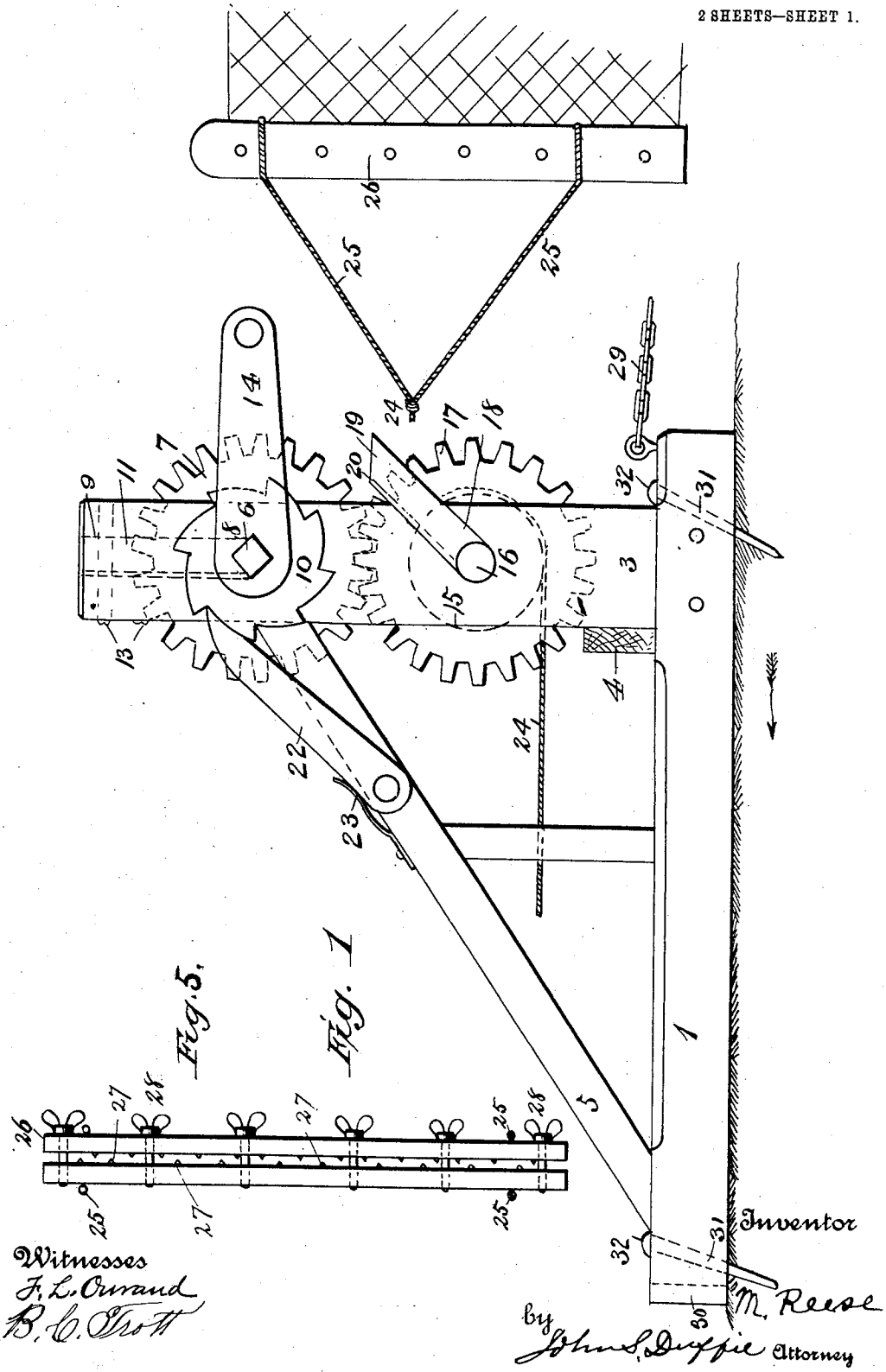


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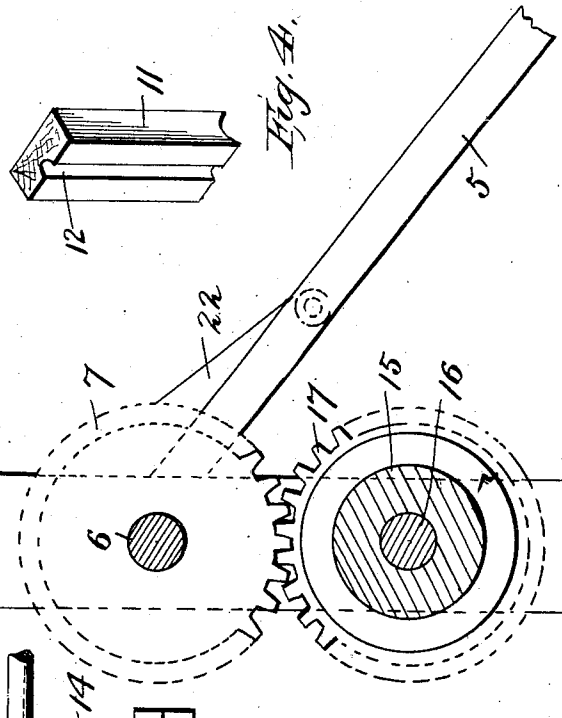


Fig. 4.

Fig. 3

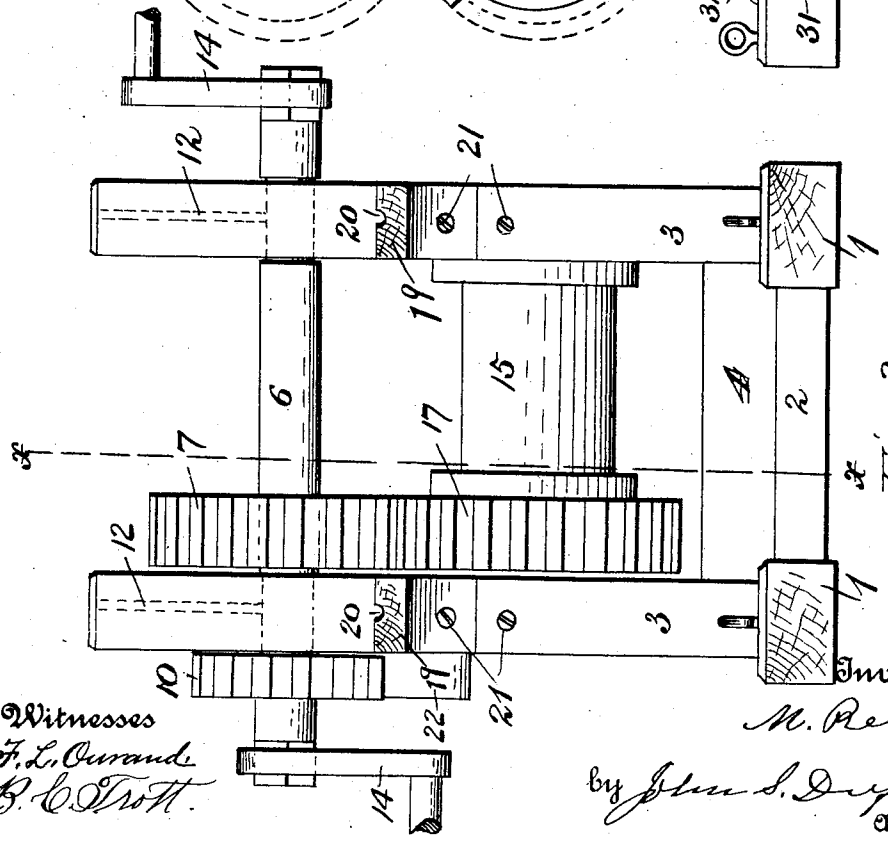


Fig. 2

Witnesses
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No. 784,629. Patented March 14, 1905.

UNITED STATES PATENT OFFICE.

MARK REESE, OF AUGUSTA, ARKANSAS.

FENCE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 784,629, dated March 14, 1905.

Application filed August 22, 1904. Serial No. 221,730.

To all whom it may concern:

Be it known that I, MARK REESE, a citizen of the United States, residing at Augusta, in the county of Woodruff and State of Arkansas, have invented new and useful Improvements in Fence-Stretchers, of which the following is a specification.

My invention is a fence-stretcher—that is, it is primarily intended to stretch wire fences; but it may also be used for stretching paling fences, cables, single wires, or anything of that kind.

In the accompanying drawings, Figure 1 is a side elevation of my invention. Fig. 2 is a rear elevation. Fig. 3 is a sectional view of Fig. 2, cut on the dotted line *x x*. Fig. 4 is a perspective view of one of the plugs 11 used in connection with my invention. Fig. 5 is an edge view of the fence-holder.

My invention is described as follows:

The numeral 1 represents the longitudinal bed-sills; 2, the cross-beams that unite the said bed-sills; 3, the upright beams secured in the rear ends of said bed-sills. 4 is a cross-brace secured to said uprights.

5 represents angle-braces having their lower and front ends secured to the front ends of the bed-sills, their rear ends secured to the uprights 3 almost immediately opposite to the windlass-axle 6. Rigidly secured on said windlass-axle and between said uprights is a cog-wheel 7. Said axle is journaled in bearings 8 in said uprights, said bearings being the lower ends of slots 9, extending from the upper ends of said uprights. Rigidly secured on said axle and outside of one of the uprights is a ratchet-wheel 10. The purpose of having this axle and these two wheels 7 and 10 journaled in slots 8 is to enable me to have the said axle and the said two wheels all cast in one piece. I prefer them all cast in one piece, because the strain on them would be very great, and to secure them by means of bolts or other such fastenings would hardly be entirely satisfactory. However, I do not confine myself to this particular construction of these three pieces, because I may find it convenient to secure them in some other way. Another reason for having these slots 9 is to enable me when the said axle is let down in place to secure it by groove-plugs 11. The grooves 12 run vertically from the top to the bottom of said plugs, which enables me to oil the axle in the center of its bearings, the very place it ought to be oiled. These plugs are held in place by screws 13, which pass horizontally through said vertical beams 3 and through said plugs. On the outer ends of said axle 6 is a windlass 14. Immediately under said windlass is a drum 15, secured on the drum-axle 16, and on one end of said drum-axle is secured a cog-wheel 17, which meshes with the cog-wheel 7. Running from the drum-axle 16 are slots 18. These slots run upwardly and rearwardly at an angle of about forty-five degrees, and fitting in each of these slots are plugs 19, each provided with a groove 20. The purpose of the slots 18, plugs 19, and grooves 20 is the same as expressed above, because I may have said drum-axle 16, said drum 15, and said cog-wheel 17 all cast in one piece, as above mentioned. These last-mentioned plugs 19 are held in place by screws 21. Said ratchet-wheel 10 is held in place by a dog 22, which is pivoted to said angle-brace 5. Said dog is held down by a spring 23, which is also secured to said angle-brace.

Secured to the drum 15 is a cable 24, which divides into two parts 25, one part of which is secured to the upper end of the fence-holder 26 and the other to the lower end thereof. The fence-holder consists of two parts, the inner faces of which are provided with projecting points 27, and the two parts are held together by thumb-screws 28, the heads of which are heavy enough and strong enough so that they may be turned by a wrench.

To the rear ends of said bed-sills 1 are secured chains 29, which lead to the rear and are securely fastened to the ground. To further secure said sills to the ground, each is provided with a groove 30 in its front end, in which grooves may be driven hardwood or metal pins. Each sill is also provided at its front and rear ends with a perforation 31, that slants forwardly, and in these perforations are driven hardwood or metal pins 32.

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

1. The combination of the bed-sills 1, having grooves 30, in their front ends, and in their front and rear ends perforations 31, slanting forwardly; pins 32, fitting in said perforations; chains 29, secured to the rear ends of said sills; cross-beams 2, uniting said sills; uprights 3, rising from the rear ends of said sills, each provided with slots 9 and 18; windlass-axle 6, journaled in the lower ends of said slots 9, said axle provided with a cog-wheel 7, ratchet-wheel 10, and windlasses 14; drum-axle 16, journaled in the lower end of slot 18, said axle provided with a drum 15, and cog-wheel 17, said cog-wheels meshing with each other; angle-braces 5, having their lower ends secured to the front ends of the bed-sills 1, and their upper ends to the uprights 3, opposite to the windlass-axle 6; a dog 22, hinged to said angle-brace, and adapted to arrest the backward movement of the ratchet-wheel 10; spring 23, secured to said angle-brace, and adapted to hold the free end of said dog down in the notches of said ratchet-wheel, and a cable 24, secured to said drum, its free end divided into two parts 25, and secured to the lower ends of a fence-holder 26, substantially as shown and described and for the purposes set forth.

2. A fence-stretcher, consisting of a bed-frame; uprights rising from the rear ends of said bed-frame, properly braced, each of said uprights provided with a vertical slot, terminating in a bearing, and slanting slots, also terminating each in a bearing; a windlass-axle, cog-wheel and ratchet-wheel journaled in first-mentioned bearings; drum-axle, drum and cog-wheel journaled in second-mentioned bearings; vertically-grooved wedges, fitting in said slots, and secured in place; a dog, adapted to contact with said ratchet-wheel; windlasses, secured on each end of said windlass-axle; a drum-axle, drum and cog-wheel, all integral, journaled in the bearings of said slanting slots; vertically-grooved plugs, fitting in said slanting slots, and a cable, having one end secured to said drum, and its other to a fence-holder, with means to hold said stretcher securely in place, substantially as shown and described and for the purposes set forth.

3. A fence, consisting of a bed-frame; uprights, rising from the rear end of said bed-frame, properly braced, each of said uprights provided with a vertical slot, terminating in a bearing, and slanting slots, also terminating each in a bearing; a windlass-axle, cog-wheel and ratchet-wheel, all integral, journaled in said mentioned bearings; vertically-grooved plugs, fitting in said slots; a dog, adapted to contact with said ratchet-wheel; cranks, secured on each end of said windlass-axle; a drum-axle, drum and cog-wheel, all integral, journaled in the bearings of said slanting slots, and vertically-grooved plugs, fitting in said slanting slots, substantially as shown and described and for the purposes set forth.

In testimony whereof I affix my signature in the presence of two witnesses.

his
MARK × REESE.
mark

Witnesses:
A. H. CAMPBELL,
J. R. VINSON.