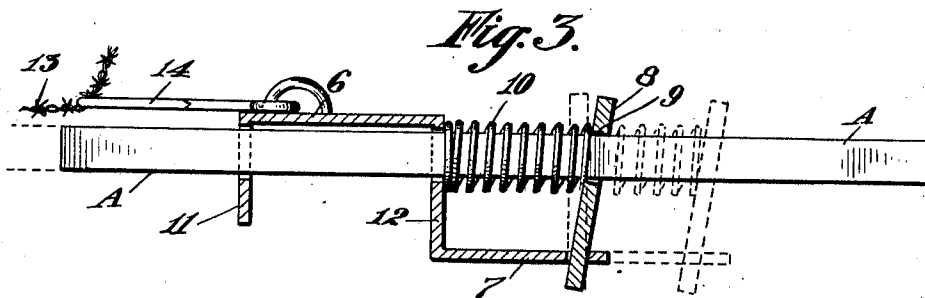
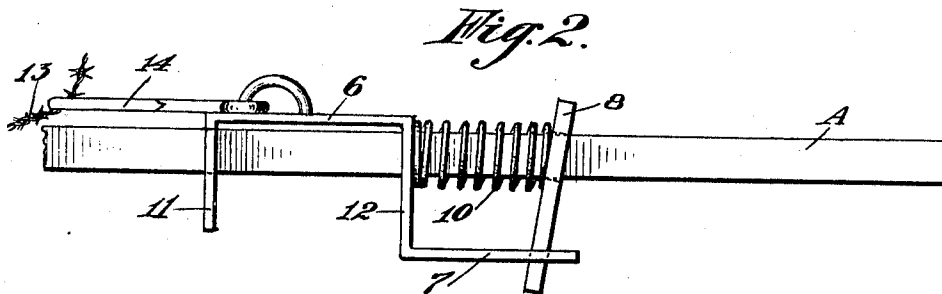
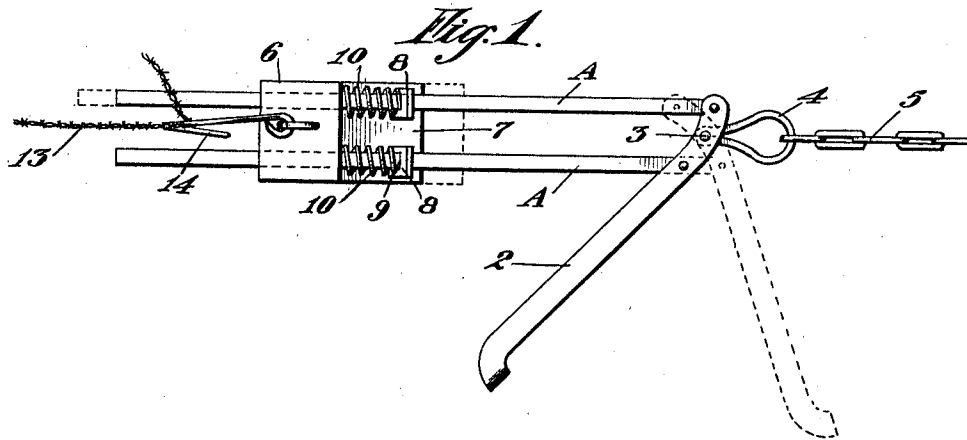


J. FLINT.  
WIRE TIGHTENER.  
APPLICATION FILED JUNE 13, 1910.

991,965.

Patented May 9, 1911.



Witnesses;  
*R. S. Brown,*  
*F. E. Maynard.*

Inventor  
Jesse Flint  
By *G. H. Strong,*  
His Attorney.

# UNITED STATES PATENT OFFICE.

JESSE FLINT, OF COOL, CALIFORNIA, ASSIGNOR OF ONE-HALF TO GEORGE E. LUKENS,  
OF EAST AUBURN, CALIFORNIA.

## WIRE-TIGHTENER.

991,965.

Specification of Letters Patent.

Patented May 9, 1911.

Application filed June 13, 1910. Serial No. 566,505.

*To all whom it may concern:*

Be it known that I, JESSE FLINT, citizen of the United States, residing at Cool, in the county of Eldorado and State of California, have invented new and useful Improvements in Wire-Tighteners, of which the following is a specification.

My invention relates to wire stretchers and tighteners especially designed for stretching and tightening barbed wire.

The object of the invention is to provide a simple, cheap, practical device of this character.

The invention consists of the parts and the construction and combination of parts as hereinafter more fully described and claimed, having reference to the accompanying drawings, in which—

Figure 1 is a plan view, Fig. 2 is a partial side elevation, Fig. 3 is a longitudinal section of a grip member.

In the embodiment of the invention I employ two bars A—A of suitable size and length and pivot them to a lever 2 on each side of a fulcrum 3; a clevis or the like 4 being attached to the fulcrum and having a chain 5 adapted to be connected to a tree or any other suitable anchorage.

6 is a carriage sliding on the two bars A—A and having a platform extension 7 provided with two holes, each adapted to receive a loosely fitting gripping bar 8. Each of these grips 8 has a perforation 9 a little larger than a bar A, and through which perforation a bar A works. A spring 10 acts on each grip to tilt it, so that ordinarily a bar will be gripped when pressure is brought lengthwise in one direction on the bar, and when the bar is pulled in the opposite direction it will be free to slide through the grip. The carriage 6 is of peculiar design, and preferably consists of a plate of sheet-metal bent at the rear end to form the flange 11, and at a point between its ends to form a flange 12 parallel with flange 11; the two flanges 11—12 being perforated to pass the bars A—A. The platform extension 7 is below the bars A—A and forms a guide and support for the grips 8. The springs 10 bear against the

grips and against the wall or flange 12 of the carriage.

In practice, one end of the device is anchored by the chain 5, and the wire to be stretched, represented at 13, is connected with the carriage by suitable means, as the hook 14. Then by working the lever 2 like a walking-beam the bars A are alternately reciprocated, causing the carriage 6 to move step by step toward the lever 2; the grips 8, by reason of the enlarged perforations 9, engaging the bars A and holding the carriage 6 from slipping back in the direction of the wire 13, but allowing the carriage gradually to be worked forward toward the lever 2.

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

1. The combination in a wire stretcher, of a lever having a fulcrum, two bars pivoted to the lever on opposite sides of its fulcrum, a carriage freely slidable on both bars, said carriage having two gripping devices, one to engage one bar and the other to engage the other bar, and means by which on the oscillation of the lever the carriage advances step by step along said bars.

2. The combination in a wire stretcher, of a lever having a fulcrum, two bars pivoted to the lever on opposite sides of its fulcrum, a carriage freely slidable on both bars, said carriage having two gripping devices, one to engage one bar and the other to engage the other bar, said carriage comprising a plate extending over both of the bars and having flanges bent in the same direction and perforated to receive the bars, and one of said flanges having a platform portion bent parallel with the bars, said platform portion perforated, and said gripping devices supported by said platform portion.

3. The combination in a wire tightener, of a lever having a fulcrum, two rods pivoted to the lever on each side of the fulcrum, a carriage slidable on the rods, said carriage comprising a plate with bent perforated flanges through which the rods pass, and said plate having a perforated platform extension, perforated gripping bars

through which said rods pass, said bars loosely fitting the perforations in said platform extension, and springs acting against the carriage and gripping bars to prevent the latter gripping said rods on the return stroke.

In testimony whereof I have hereunto set

my hand in the presence of two subscribing witnesses.

JESSE FLINT.

Witnesses:

HENRY H. BROWN,  
HARVEY N. BROWN.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."

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