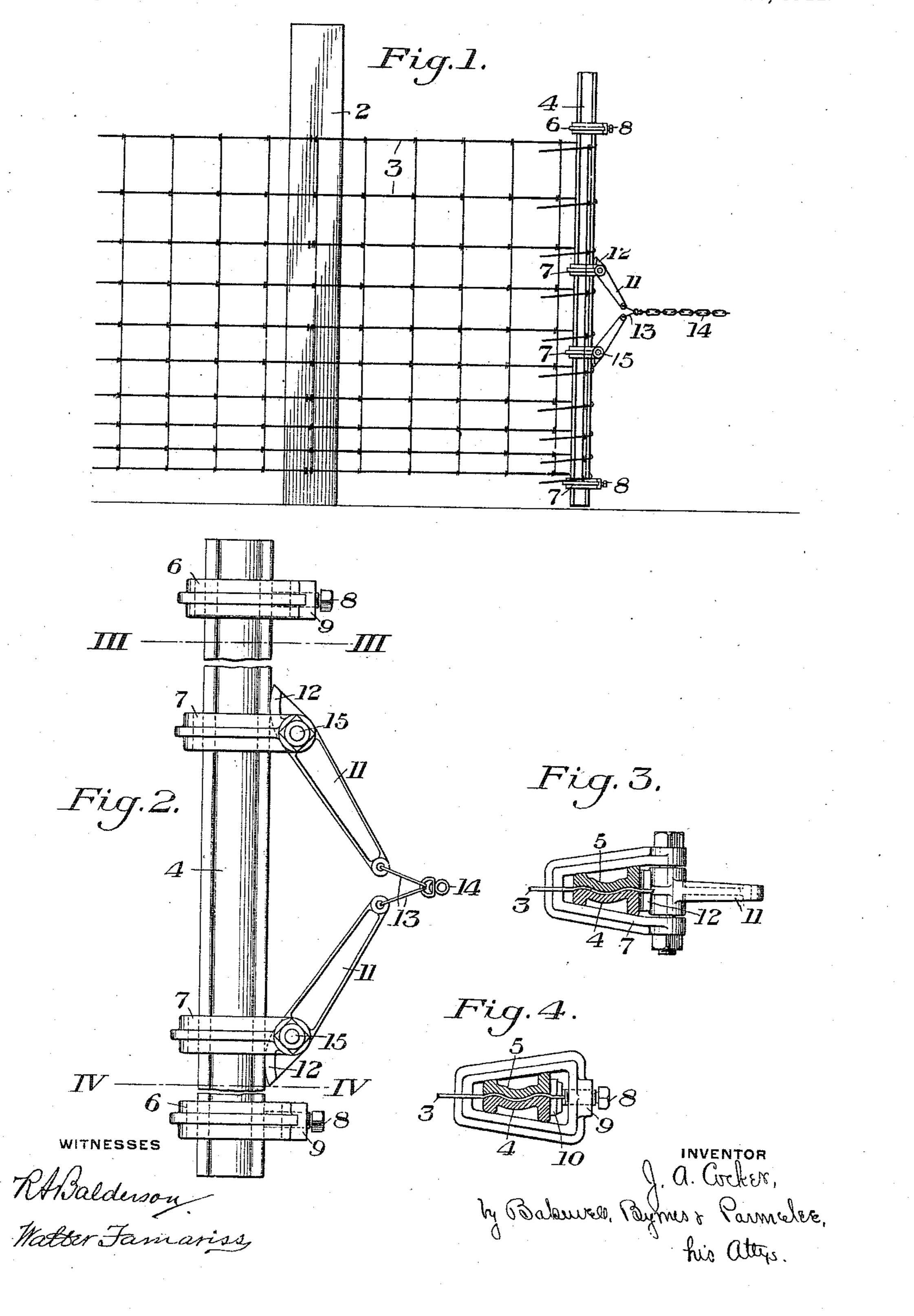
J. A. COCKER.

FENCE CLAMP.

APPLICATION FILED SEPT, 11, 1909.

995,525.

Patented June 20, 1911.



UNITED STATES PATENT OFFICE.

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FENCE-CLAMP.

995,525.

Specification of Letters Patent. Patented June 20, 1911.

Application filed September 11, 1909. Serial No. 517,298.

To all whom it may concern:

Be it known that I, John Cocker, of Joliet, Will county, Illinois, have invented a new and useful Fence-Clamp, of 5 which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is an elevation showing my im-10 proved apparatus as applied for use in stretching and holding a wire fence while it is being secured to a fence post; Fig. 2 is a side elevation on a larger scale showing a detail of the fence clamp forming my in-15 vention; Fig. 3 is a transverse section taken on the line III—III of Fig. 2; Fig. 4 is a similar transverse section on the line IV—IV of Fig. 2.

My invention relates to apparatus em-20 ployed for stretching and holding woven wire fence in erecting the fence in place, and the object of the invention is to provide 25 strand wires of the fence, and having improved means by which the force applied in stretching the fence acts to increase the gripping power of the clamp on the fence.

A further object of the invention is to 30 provide a fence clamp having novel means by which it is attached to the fence, and means by which the engaging faces of the bars forming the clamp are tightened on the wires of the fence, and slipping between 35 the wires of the fence and the gripping faces of the clamp is prevented.

In the drawings, 2 represents a fence post, and 3, 3, represent the strand wires of a woven wire fence, being stretched and se-40 cured in place on the post 2. The strand wires 3 are passed between the adjacent faces of the clamping bars 4 and 5. Placed on the clamping bars 4 and 5, adjacent to the opposite ends of these bars, are the 45 clamping bands 6 and at points between bands 6 are the clamping bands 7. As shown in Figs. 3 and 4, the clamping bands 6 and 7 have openings provided with tapering inner sides, and the opposite edges of ⁵⁰ each of the bars 4 and 5 have correspondingly tapered side portions which engage with the tapering sides of the clamping bands. The adjacent faces of the longitudinal clamping bars 4 and 5 are curved or 55 corrugated transversely of their length pref-

erably a reverse curve formed as shown being used, and the adjoining inner surfaces of the clamping bars 4 and 5 are preferably of the same curved contour throughout their length.

The clamping bands 6 are each provided with a set screw 8, which is inserted in the screw-threaded openings in the boss 9 on one end of these bands, the inner end of the set screw engaging preferably with a 65 washer 10, which rests upon the edge of the clamping bars 4 and 5. It will be seen by reference to Fig. 4 that when the set screw is turned so as to move the clamping bars 4 and 5 inwardly toward the smaller end of 70 the tapered opening in the clamping bands 6, the adjacent faces of the clamping bars 4 and 5 will be caused to approach each other and will tightly grip the wires of a fence placed between them.

The clamping bands 7 are provided with levers or arms 11, which are pivotally a fence clamp having means by which the | mounted on the pins or bolts 15 provided clamp is easily and quickly attached to the on the ends of the clamping bands, one end of the arms having a curved or cam face 12, 80 which engages with the edges of the clamping bars 4 and 5. The outer ends of the levers or arms 11 are connected together by the links 13. The device by which the fence is stretched is secured through the chain 14 85 to the links 13 on the ends of the levers 11. The sides of the openings in the clamping band 7 taper in a similar manner to those of the clamping bands 6, and the inner tapering surfaces engage with the corre- 90 spondingly tapered sides of the clamping bars 4 and 5.

In the operation of my improved fence clamp, the strand wires (3) of the fence are placed between the curved faces of the 95 clamping bars 4 and 5. The clamping bands 6 are then placed in position adjacent to the opposite ends of the clamp bars 4 and 5. The set screws 8 are then turned so as to wedge the clamping bars into engage- 100 ment with the wires held between their transversely curved surfaces. The clamping bands 7 are then placed in position on the bars and the levers 11 are secured in place on the pins 15. The fence-tightening ap- 105 paratus is then caused to operate so as to stretch the fence through the lever arms 11 and clamping bars 4 and 5. It will be understood that one end of the fence to which the clamping arms are attached has 110

been secured to a fence post at the beginning of the erecting operation. The fence is then stretched to the desired tension and is held stretched until it has been secured in the proper manner to the fence post 2. The tightening device is then released and the set screws 8 are retracted so as to release the grip of the clamping bars 4 and 5 upon the fence. When the power is applied to the lever arms 11 by the tightening apparatus.

lever arms 11 by the tightening apparatus, the cam faces 12 of the lever arms will engage with the contacting surfaces of the clamping bars 4 and 5 and will force them downwardly into the tapering openings in

the clamping bands 7. As the tension is increased on the stretching device, the wedging effect of the tapering surfaces on the bars 4 and 5 and engaging surfaces of the opening in the clamping bands 7, will cause

20 the opposing surfaces in contact with the strand wires 3 of the fence to more tightly

The advantages of my invention will be apparent to those skilled in the art. The apparatus is simple and can be easily and quickly applied for use while the strand wires of the fence are tightly held in place, and the clamping device is readily detached or disengaged when desired. The greater the tension applied on the tightening device, the tighter the wires will be gripped

by the clamping bars.

Modifications in the construction and arrangement of the parts may be made with-

35 out departing from my invention.

I claim:

1. A fence clamp comprising clamping bars having co-acting fence clamping faces, clamping bands embracing said bars, said 40 bars and bands having engaging beveled wedging faces for causing a relative approach of the adjacent faces of the clamping bars and means by which the bars are attached to a fence stretcher, said means being arranged to wedge the bars within the clamping bands and thereby increase the clamping force of the bars on the fence wires held between the clamping bars when tension is applied by the stretcher.

2. A fence clamp comprising a pair of clamping bars having co-acting fence clamping faces, said bars having beveled wedging faces thereon, clamping bands embracing said bars having beveled wedging faces and

means by which the bars are attached to a 55 fence stretcher, said means being arranged to move the beveled wedging faces on the bars relative to those on the clamping bands to increase the clamping force of the bars on the fence wire held between the clamp- 60 ing bars when tension is applied by said stretcher.

3. In a fence clamp, a pair of clamping bars, clamping bands embracing said bars, the engaging surfaces of said bands and bars 65 being tapered, and means by which the bars are forced inwardly within said bands when tension is applied through the clamping bars

to stretch the fence.

4. In a fence clamp, a pair of clamping 70 bars, the adjacent faces of said bars having transversely curved surfaces, clamping bands having wedging faces embracing said bars, and means for moving the bars within said clamping bands to cause a relative approach 75 of the curved faces of the clamping bars when the fence is stretched through said bars and clamping bands.

5. In a fence clamp, a pair of clamping bars, clamping bands embracing said bars, 80 the contacting surfaces of the bars and clamping bands being tapered, and a lever arm pivotally mounted on the clamping bands, one end of said lever arm engaging with and moving the clamping bars inwardly in said clamping bands when the fence is stretched through the clamping bars

and lever arms.

6. In a fence clamp, a pair of clamping bars having co-acting fence clamping faces, a plurality of sets of wedging faces on each of said bars, clamping bands embracing said bars having wedging faces engaging with one set of the wedging faces on said bars for causing a relative approach of said 95 clamping bars and means by which the bars are attached to a fence stretcher, said means having wedging faces engaging with a second set of wedging faces on the bars arranged to increase the clamping force on 100 the fence wires when tension is applied by said stretcher.

In testimony whereof, I have hereunto set my hand.

JOHN ARTHUR COCKER.

Witnesses:
Geo. M. Hogmire,
T. Ingraham.

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

Washington, D. C."