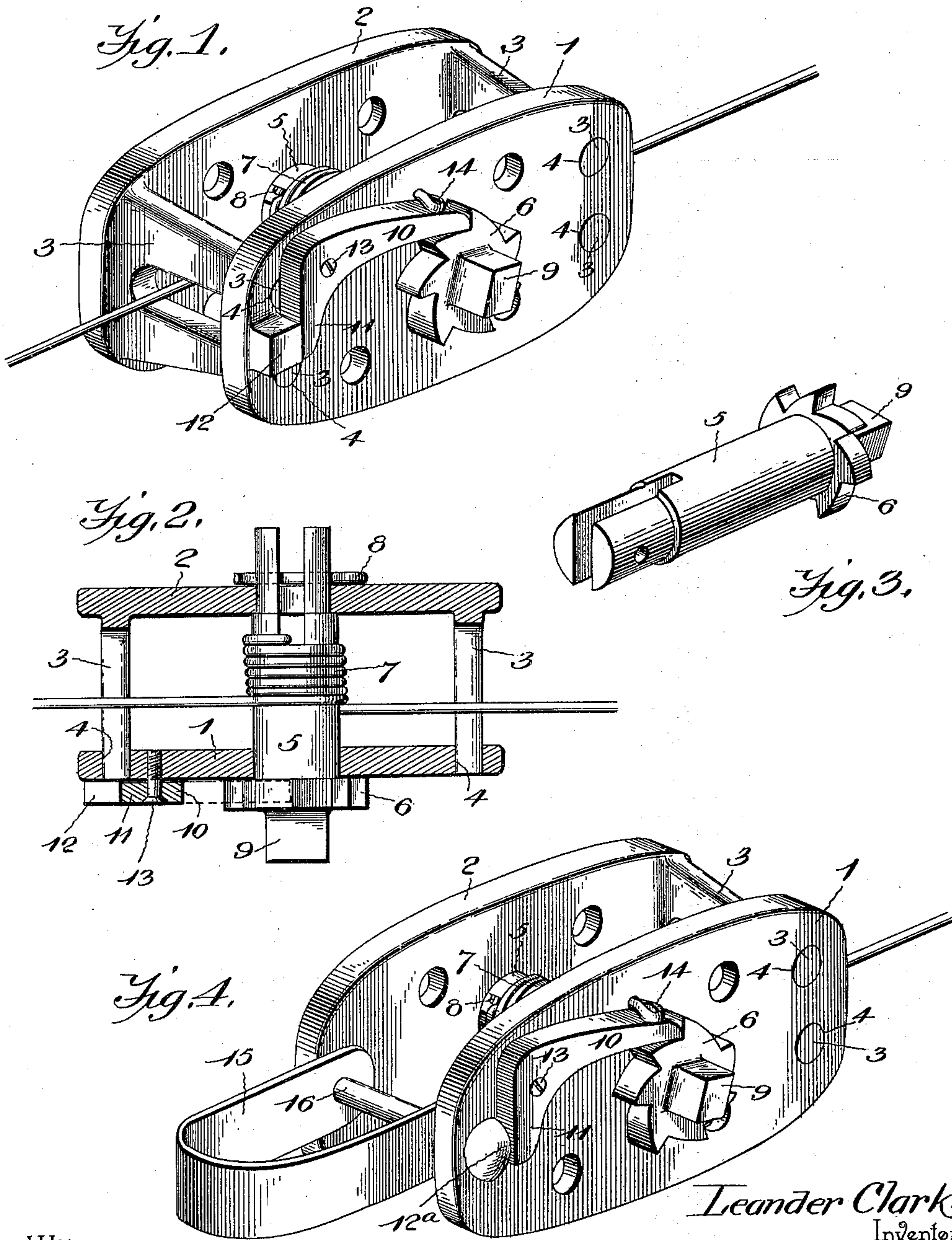


(No Model.)

L. CLARK.
WIRE STRETCHER.

No. 604,302.

Patented May 17, 1898.



Witnesses

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WIRE-STRETCHER.

SPECIFICATION forming part of Letters Patent No. 604,302, dated May 17, 1898.

Application filed December 29, 1897. Serial No. 664,241. (No model.)

To all whom it may concern:

Be it known that I, LEANDER CLARK, a citizen of the United States, residing at Greenville, in the county of Darke and State of Ohio, have invented a new and useful Wire-Stretcher, of which the following is a specification.

My invention relates to wire-stretchers, and has for its object to provide a simple, strong, and efficient construction and arrangement of parts adapted to be used with slight modification either as a mid-wire or as an end-wire stretcher, and, furthermore, to provide a construction of mid-wire stretcher whereby when allowed to remain in engagement with the fence-wire the drum is locked permanently against displacement.

Further objects and advantages of this invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claims.

In the drawings, Figure 1 is a perspective view of a wire-stretcher of the mid-wire type constructed in accordance with my invention applied to a fence-wire. Fig. 2 is a longitudinal section of the same. Fig. 3 is a detail view of the drum detached. Fig. 4 is a perspective view of a stretcher of the end-wire type applied to a fence-wire.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

The stretcher embodying my invention includes a frame having parallel side cheeks 1 and 2, of which the latter carries terminal wire-guides 3, bifurcated to form guide-openings in longitudinal alinement, the extremities of the arms of the guides being fitted in openings 4 in the cheek 1. Furthermore, said cheeks are provided with transversely-alined bearings, in which is mounted a drum 5, provided with a fixed ratchet 6 contiguous to one end and longitudinally slotted at the opposite end to engage a fence-wire 7 at an intermediate point. The slotted extremity of the drum extends through the rear cheek 2, and is provided with a transverse perforation fitted with a split key 8, which, bearing against the outer surface of the rear cheek while the ratchet bears against the outer face of the front cheek, maintains the cheeks at the

proper interval, and thus locks the extremities of the wire-guides in the openings provided therefor in the front cheek. In other words, in applying a stretcher constructed in accordance with my invention to a fence-wire the cheeks are detached by the removal of the key in the rear end of the drum and the guides are placed over the wire. The front cheek is then applied to engage its terminal openings with the extremities of the guides. The drum is inserted through the front cheek with its slot straddling the wire and is then extended to cause its rear extremity to project beyond the rear cheek, and finally the split key is engaged with the transverse perforation of the drum to lock the several parts of the stretcher in their proper relative positions. It will be seen that the final insertion of the key serves to connect all of the separable members of the stretcher, thus facilitating the application of the device to a wire fence, and reducing to a minimum the number of detachable parts.

The drum is extended forwardly beyond the plane of the ratchet to form a wrench or key seat 9, and mounted upon the front cheek, in operative relation with the ratchet, is a pawl 10, having a tail or extension 11 for contact with a stop 12 when the pawl is in engagement with a tooth of the ratchet, whereby the backward pressure of the ratchet is communicated by the pawl to the stop instead of straining the fulcrum-pin 13 of the pawl, it being desirable to use a light fulcrum-pin and protect it from strain in order that the pawl may operate freely during the rotary adjustment of the drum. When the stretcher has been operated to properly tighten a fence-wire, and it is desired to allow the stretcher to remain upon the wire permanently, a locking-pin 14 of the split-key type should be inserted in a perforation in the front cheek in the path of the free end of the pawl, thus preventing the accidental disengagement of the pawl from the ratchet in case the slacking of the fence-wire should allow the stretcher to turn, and thus displace the pawl by gravity or a jar.

In the construction illustrated in Fig. 4, which is designed particularly as an end-wire stretcher for application to a fence-post or other fixed object and adapted to strain the

