(No Model.)

C. R. HARTMANN.

CONFINING CLAMP FOR REELED WIRE.

No. 564,070. Patented July 14, 1896.

Fig: 1.

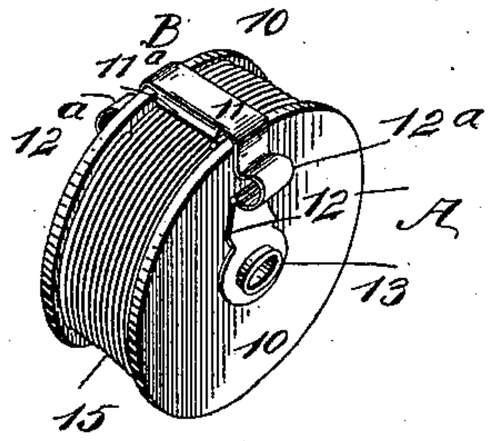


Fig: 2.

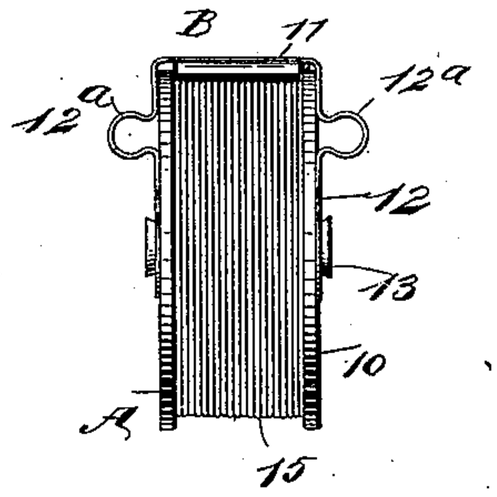
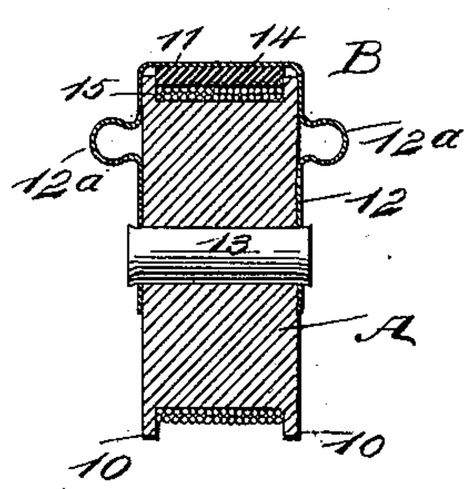


Fig: 3.



WITNESSES:
John A. Rennie
C. Sedgwick

INVENTOR
C. R. Hartmann
BY Munn & Co
ATTORNEYS

UNITED STATES PATENT OFFICE.

CHARLES R. HARTMANN, OF JERSEY CITY, NEW JERSEY.

CONFINING-CLAMP FOR REELED WIRE.

SPECIFICATION forming part of Letters Patent No. 564,070, dated July 14, 1896.

Application filed February 3, 1894. Serial No. 498,983. (No model.)

To all whom it may concern:

Be it known that I, CHARLES R. HARTMANN, of Jersey City, in the county of Hudson and State of New Jersey, have invented a new and Improved Confining-Clamp for Reeled Wire, of which the following is a full, clear, and exact description.

My invention relates to a device for confining reeled wire upon its reel, whether the wire be of a spring character or unannealed; and the object of the invention is to provide a clamp of simple, durable, and economic construction capable of being applied to any reel upon which wire is wound, and especially adapted for holding in place wire adapted for use in stringed instruments.

A further object of the invention is to provide a clamp which will not only hold the wire in proper position when the reel is filled and without the necessity of fastening the free ends of the wire, but which will also admit of the wire being drawn from the reel, at the same time maintaining the wire that remains upon the reel in the order in which it was placed in winding.

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 figures and letters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of a reel of wire having the improved clamp applied thereto. Fig. 2 is an edge view of the reel and a front elevation of the clamp applied thereto, and Fig. 3 is a vertical section taken through the clamp, the reel, and the wire thereon.

The reel A may be of the ordinary construction, being provided with a peripheral holding-surface for the wire, and side flanges 10 at each side of said surface. The wire is wound upon the holding-surface between the flanges in the ordinary manner.

The clamp B is substantially U-shaped in general contour, and one of its members, which may be termed the "head member" 11, is adapted to extend over the surface of the reel upon which the wire is wound and likewise over its flanges 10, while what may be termed the "side members" 12 are made to extend inward, one along each side surface of the reel to a point preferably at the center thereof, at which point the inner ends of the side members are pivotally connected with the reel in any suitable or approved manner, preferably through the medium of a tube or pin 13, which is passed through the usual core in the reel and is attached to the side members of the clamp, permitting the clamp to be readily moved along the peripheral surface of the reel to any point that may be desired.

The side members of the clamp, as shown in the drawings, are provided with loops 12^a, made integral therewith, whereby the upper or head member 11 is held down to proper place, the loops serving in the capacity of springs, but said loops may be omitted if in practice it is found desirable. The head member is provided with a downwardly-extending flange 11^a at each side, said flange being of a length corresponding to the width of the surface between the flanges 10 of the reel, but in every event a pad 14, of cork, rubber, leather, or equivalent elastic material, is confined between the head and the wire 15 wound upon the reel, being held in engagement with the latter by a clamp, and when the flanges 11^a are employed the said pad is confined between the flanges.

It is obvious that after the wire has been wound upon the reel and the clamp is placed in position the pad will hold the wire in place, especially when it is carried to a point which will enable it to engage practically with the free end of the wire. The pad need not necessarily, however, engage with the free end of the wire, as said free end, as is shown in the drawings, may engage with the head member of the clamp opposite one end of the head flanges.

It is further obvious that the wire may be readily unreeled from the reel, and when a suitable length has been cut from the reeled wire the free end of the wire will still be held firmly upon the reel, the clamp being carried to a position to contact with said end, while the strands of wire remaining on the reel will be prevented from leaving the same and will be held in the order in which they were originally wound.

The clamp is equally applicable to spring or to malleable wire and is particularly useful on spools or reels carrying spring-wire.

It will also be understood that the clamp may be used upon reels containing one or more layers of wire.

The loops 12^a in the sides of the clamp not only serve as springs, as heretofore stated, but they likewise act in the capacity of handles, rendering the disposition of the clamp around the periphery of the reel exceedingly convenient.

I am aware of the patent granted to John C. Lyon June 4, 1878, No. 204,495, which patent shows a spring-holder having curved or looped side members for the purpose of increasing the elasticity of the holder and of forming a guard on each side of a roll of tape. The loops of these side members, however, do not extend at an angle to the outer faces of the side members, so as to be capable of being used as handles, but are arranged parallel to each other and in planes that are essentially perpendicular to the head member, which extends across the tape.

I do not herein claim a construction such as shown in the Lyon patent above cited, but I do claim the particular arrangement of the loops at an angle to the outer faces of the side members, whereby the loops project at an angle to the side surfaces of the reel, so that they can be readily employed as handles.

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

1. A confining-clamp for reeled wire and the like, comprising a central or head member adapted for engagement with the reeled article, and side members extending from the ends of the head member, the free ends of the said side members being adapted for pivotal connection with a reel, the side members being also provided with open spring-loops extending in opposite directions at right angles to the outer faces of the side members and in essentially the same plane with the head member, so that the said loops project at right angles to the side surfaces of the reel when the clamp is in position thereon, whereby the loops can be readily employed as handles, substantially as described.

2. A confining-clamp for reeled wire and the like, comprising a central or head member provided with parallel longitudinal flanges projected essentially perpendicular to the said member at the edges thereof, a pad secured to the head member between the said flanges, and side members extending from the ends of the head member on the same side on which the pad is secured, the free ends of the said side members being adapted for pivotal connection with a reel, the side members being also provided with open spring-loops extending in opposite directions at right angles to the outer faces of the side members and in essentially the same plane with the head member, so that the said loops project at right angles to the side surfaces of the reel when the clamp is in position thereon, whereby the loops can be readily employed as handles, substantially as described.

CHARLES R. HARTMANN.

Witnesses:
RUDOLF HARTMANN,
FRANK YOE HARTMANN.