M. LACHMAN.

REEL.

APPLICATION FILED APR. 11, 1911.

1,103,519. Patented July 14, 1914.

Fig. 1.

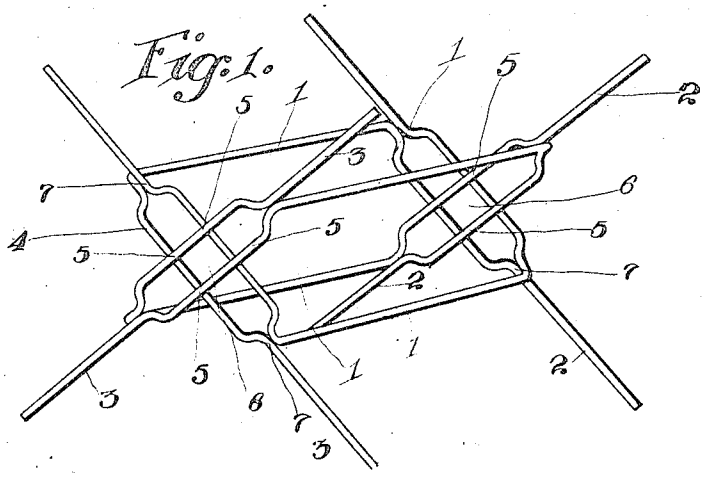


Fig. 3.

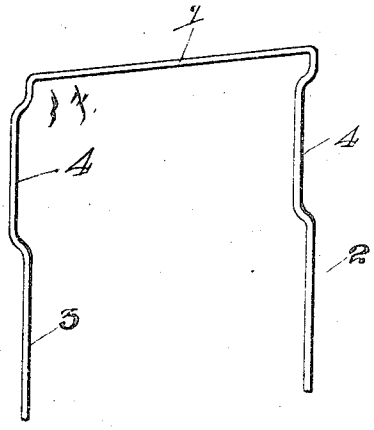
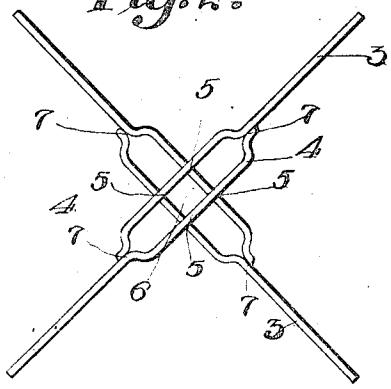


Fig. 2.



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UNITED STATES PATENT OFFICE.

MAURICE LACHMAN, OF NEW YORK, N. Y., ASSIGNOR TO UNIVERSAL ELECTRIC WELDING COMPANY, OF LONG ISLAND CITY, NEW YORK, A CORPORATION OF NEW YORK.

REEL.

1,103,519. Specification of Letters Patent. Patented July 14, 1914.

Application filed April 11, 1911. Serial No. 620,296.

To all whom it may concern:

Be it known that I, MAURICE LACHMAN, a citizen of the United States, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Reels, of which the following is a specification.

My present invention relates to the construction of reels made entirely of metal.

The object of my invention is to provide a metal reel suitable for holding and shipping barbed or other wire which will be of low cost to manufacture and very light in weight as well as being capable of standing rough handling and heavy loading without danger of collapse.

A further object is to construct a metal reel of a minimum number of parts thus decreasing the cost of assembling the reel and simplifying and strengthening its construction by providing but few separate pieces to be joined together. To carry this into effect the reel, in its preferred form, consists of but four members, all of said members being duplicates.

A further object of the invention is to so construct the reel that the process of electric welding may be utilized in the manufacture thereof, thereupon cheapening the production as well as affording a reel which will be strong and rigid.

Metal reels for shipping wire and the like are preferable to wooden reels owing to their uniform weight and indestructibility by fire and rough handling but have in most previous cases been prohibitive owing to the forming and number of parts necessary and the consequent cost of material and assembling. By this invention but four members or parts are necessary, when four reel arms are desired, to make the complete reel. These four members or parts are all duplicates so that the cost of forming the reel is reduced to a minimum.

The invention consists in the novel construction of metal reel hereinafter more particularly described and then specified in the claims.

In the accompanying drawings, Figure 1 is a perspective view of a metal reel made up in accordance with this invention. Fig. 2 is an end elevation of the same. Fig. 3 is a perspective view of one of the duplicate members or parts of which the reel is made up.

The reel is made up of wire, strips or metal stock of any desired cross-section. The form of reel illustrated in the accompanying drawings is constructed of the well-known round wire but it will be understood that the invention is not limited to making the reel of such wire as many other forms or styles of metal might be employed for making up the reel and such other forms and styles of material as might be suitable are included within the scope of this invention.

The material of which the reel is constructed is formed into a generally U or trough-shaped member having a base 1 and legs 2, 3. Preferably a portion of each leg at or near the base of the U or trough is offset for a greater or less distance as indicated at 4.

For the style of reel shown, four members or parts, each duplicates of that illustrated in Fig. 3 are provided. The members or parts are arranged in pairs, preferably in side contact with each other, each member of a pair overlapping the other member so that the bases 1 are spaced more or less distance apart, as desired. The pairs of overlapping members are arranged to intersect each other at or about the axis of the reel and at the points of intersection are preferably welded together, such as at the points 5. Preferably the intersections are welded by an electric welding process in a well-known manner as by this method the parts are securely and cheaply fastened together and form an integral structure. By providing the offset 4 in the legs of the members an opening 6 is provided for insertion of the spindle usually employed to support the reel when winding and unwinding the wire or other material, as well as serving to separate the welded connections 5 and thereby more rigidly secure the parts together.

It will be noted that the bases 1 of the U-shaped members form the body of the reel upon which the wire or other material is wound and the legs 2 and 3 form the reel arms. The legs of each member of a pair are brought into side contact with the legs of the other member at each side of the offset 4 as indicated at 7 and at these points, if desired, the legs of a pair are secured together preferably by electrically welding them in a manner well-known to the art. This further strengthens the reel and prevents any out-

ward strain from coming directly on the intersecting points 5 and further prevents the reel arms separating from the body pieces 1.

As will be seen, a reel having a body portion and four reel arms at each end of the body portion is constructed from but four parts or members, each a duplicate of the others.

What I claim as my invention is:

1. A metal reel comprising a pair of U-shaped metallic members, the base of each member overlapping the other member whereby their bases form the body of the reel, the arms being in side contact and welded to each other at such points.

2. A metal reel comprising U or trough-shaped members arranged in pairs crossing each other and welded together at the crossing, the bases of said members overlapping each other and in contact with the arms of the other member to form the body of the reel.

3. A metal reel consisting of pairs of U-shaped pieces of metal crossing each other and welded together at the crossing, the base of each piece of a pair overlapping the other piece whereby their bases form the body of the reel and each piece being side-welded to the other.

4. A metal reel comprising four U or trough-shaped members arranged in pairs, each pair crossing the other and welded together at the crossing, the bases of said members forming the reel body and each member of a pair side-welded to the other.

5. A metal reel comprising four U-shaped members, the bases of said members forming the body of the reel and the legs of one member overlapping those of another member and side-welded to each other.

6. A metal reel consisting of four U-shaped members arranged in pairs, each pair crossing the other, the bases of said members forming the reel body and the legs provided with an offset to form a bearing for a supporting spindle, the pairs being secured together at the offset in the legs.

7. A metal reel comprising four U-shaped members arranged in pairs, each member of a pair overlapping the other and provided with an offset in the overlapped portion, the said members being welded to each other at each side of the offset.

8. A metal reel consisting of four duplicate parts intersecting each other and welded together at the intersections, said four parts forming the body portion as well as the arms of the reel.

9. A metal reel consisting of U-shaped metallic members secured together, the bases of said members forming the reel body and the legs being provided with an offset near the base of said members to form a bearing for a supporting spindle.

Signed at New York in the county of New York and State of New York this 8th day of April A. D. 1911.

MAURICE LACHMAN.

Witnesses:
IRENE LEFKOWITZ,
FRED. S. BORDEN.