

E. H. BRODEN & J. G. MUSTIN.

REEL.

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1,020,079.

Patented Mar. 12, 1912.

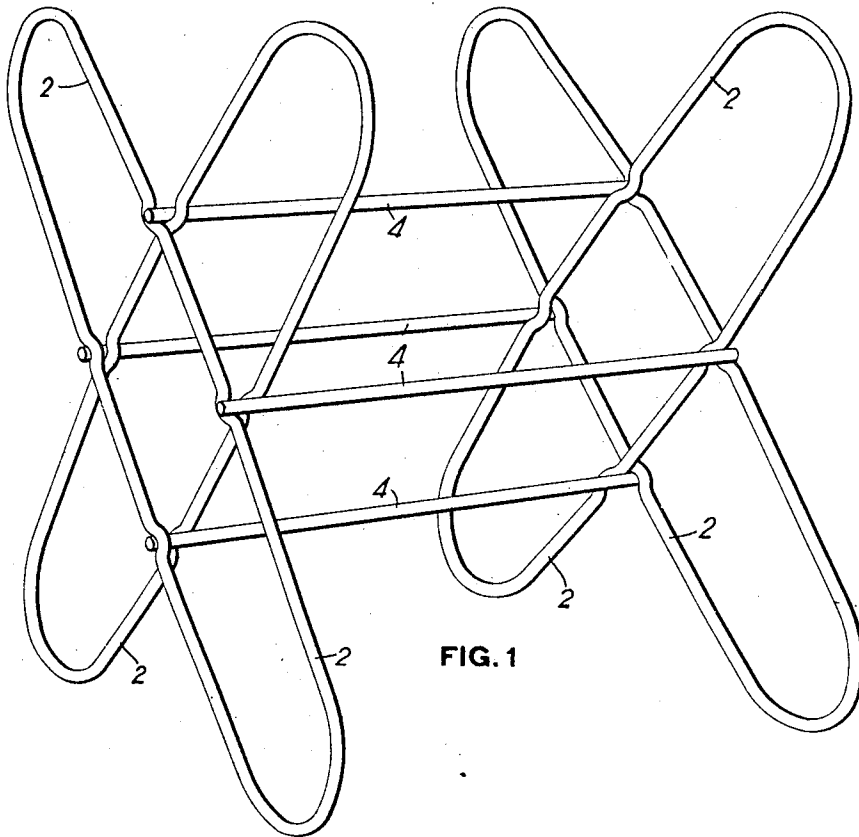


FIG. 1

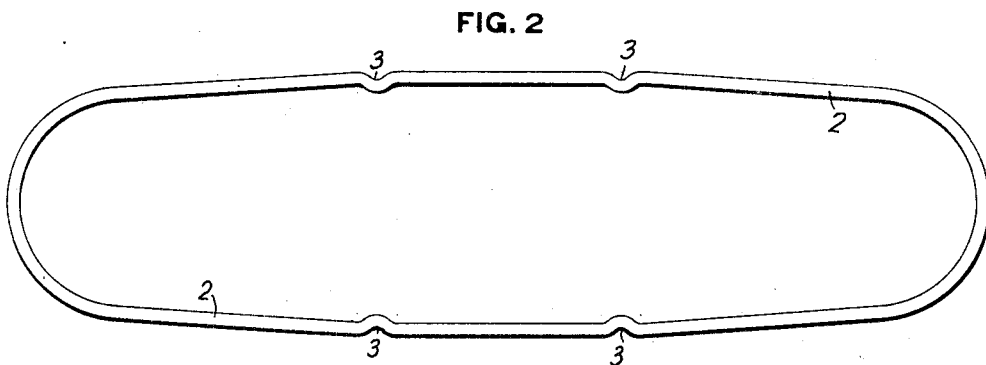


FIG. 2

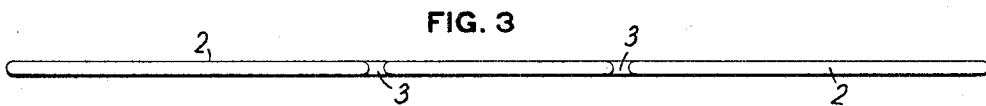


FIG. 3

WITNESSES

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UNITED STATES PATENT OFFICE.

EDWIN H. BRODEN, OF EDGEWOOD PARK, AND JAMES G. MUSTIN, OF WILKINSBURG, PENNSYLVANIA, ASSIGNORS TO THE AMERICAN STEEL & WIRE COMPANY OF NEW JERSEY, OF HOBOKEN, NEW JERSEY, A CORPORATION OF NEW JERSEY.

REEL.

1,020,079.

Specification of Letters Patent.

Patented Mar. 12, 1912.

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To all whom it may concern:

Be it known that we, EDWIN H. BRODEN, of Edgewood Park, and JAMES G. MUSTIN, of Wilkinsburg, both in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Reels, of which the following is a specification.

Our invention relates to the construction of reels on which wire, barbed wire fencing and similar materials are wound or coiled, in forming bundles of convenient size for handling in storing and shipping.

One object of our invention is to provide a metallic reel which is of simple construction and combines extreme lightness with great strength and durability, and which is easily and cheaply manufactured and a further object of the invention is to provide a reel formed of wire and employing improved means whereby the parts are secured together in forming a substantially integral structure.

Referring to the accompanying drawings, forming part of this specification, Figure 1 is a perspective view showing a reel formed of wire and having the end members and tie members thereof connected together in accordance with this invention. Fig. 2 is a plan showing a detail of the endless rings forming the end members of the reels as constructed in accordance with our invention, and Fig. 3 is a side elevation of the same.

In the drawings, 2 denotes endless wire rings, forming the end members of the reel. The ends of each piece of wire forming one of the rings are secured together, preferably by welding, and the rings are bent so as to be elongated with semi-circular end portions connecting side portions which are bowed slightly outward. The side portions of the rings may be made straight and parallel when desired or found necessary. The rings 2 have inwardly bent notches or indentations 3 at separated points in the length of the side portions on each of the side portions thereof.

In assembling and uniting the parts, the endless rings 2 are formed and a series of short straight pieces of wire 4 are provided. Preferably two of the endless rings 2 are employed to form each end portion of the reel, the long axes of these rings being ar-

ranged to extend at right angles to each other. When assembled in this manner the notches or indentations 3 in the sides of the rings are adjacent to each other and the tie members of the reel formed of pieces of wire 4 are arranged to lie in and contact with the surfaces of the notches or indentations 3. The tie members of the reel are then united to the contacting surfaces of the endless rings forming each end member of the reel by heating the rings and tie members adjacent to the points of intersection thereof so as to weld the parts together and form a practically unitary or integral structure. After the ends of each tie member of the reel are united to the side members, the reel is completed and in readiness for use. The completed reels are then utilized as required by placing in position upon a reeling machine and winding a quantity of the material being reeled upon the reel to form a bundle of the required size. The so-formed bundles are then in readiness for storage or shipment to a place of use.

The advantages of our invention arise from the use of the easily obtainable wire to form the reel and the cheap and economical manner in which the parts are assembled and secured together so as to form a reel which is extremely light in weight and is of very great strength and which forms a practically unitary structure.

Modifications in the construction and arrangement of the parts may be made without departing from our invention. A single endless ring may be employed to form each end member when desired, instead of two as shown. The notches may be omitted from the rings forming the end members of the reels in some cases, and other changes may be made within the scope of the appended claims.

We claim:—

1. A reel formed of wire and comprising endless wire rings forming end members, said rings being bent into elongated form and a plurality of wire tie members extending between and uniting the rings forming the opposite end members, the ends of the tie members being welded to the intersecting surfaces of the end members to form a substantially unitary structure.

2. A reel formed of wire and comprising endless wire rings forming end mem-

bers, said rings being bent into elongated form and having notches in the length thereof, and a plurality of wire tie members extending between and uniting the rings forming the end members, the tie members engaging with the notches in said end members, and the ends of the tie members being welded to the intersecting notched portions of the rings forming the end members to form a substantially unitary structure.

3. A reel formed of wire and comprising end members formed of a plurality of elongated endless wire rings having their long axes extending at right angles and having

notches in the length thereof and wire tie members extending between and uniting the end members engaging with said notches on the end members, the ends of the tie members being welded to the contacting notched portions of the end members to form a substantially unitary structure.

In testimony whereof, we have hereunto set our hands.

EDWIN H. BRODEN.
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Witnesses:

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