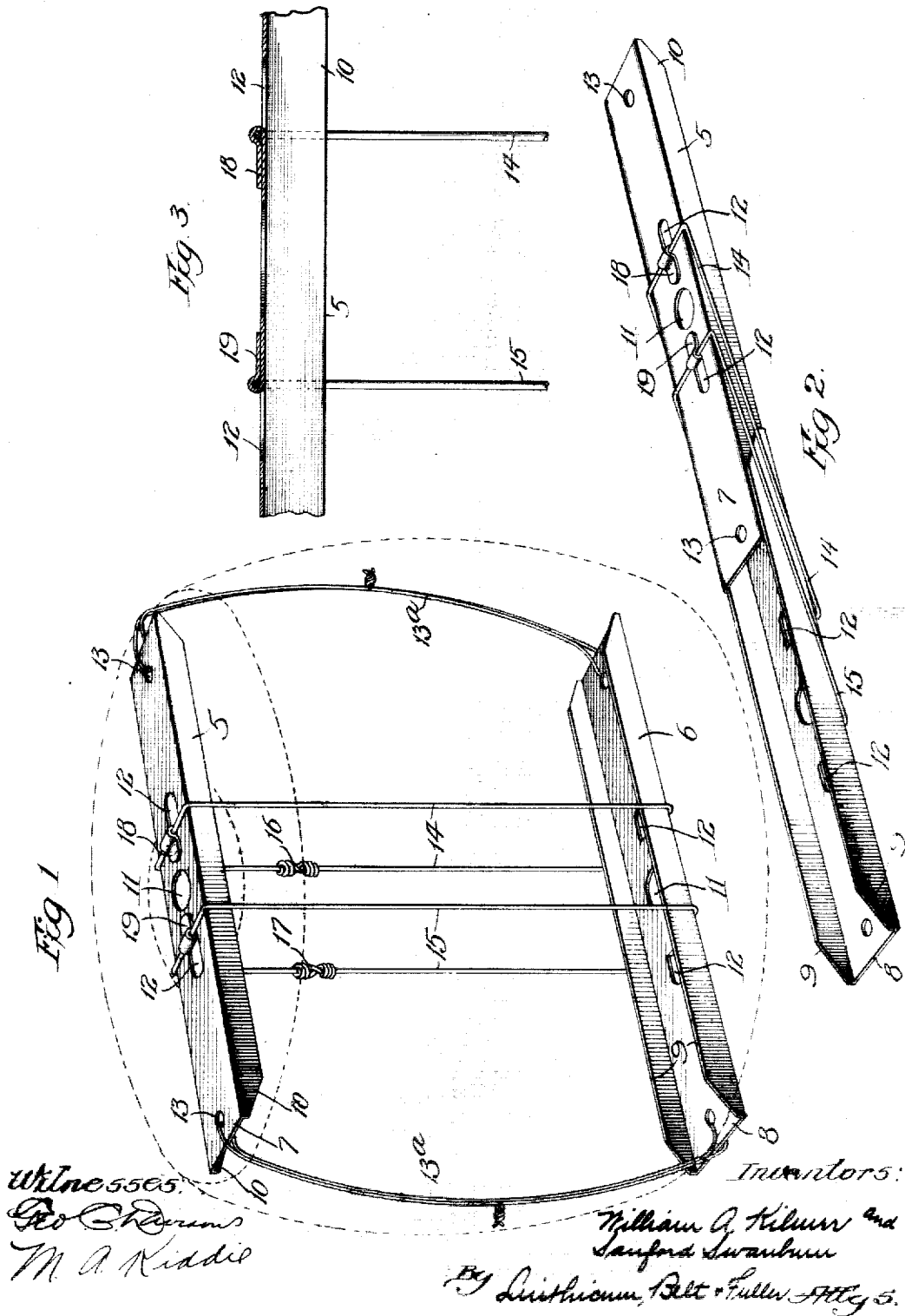


W. A. KILMER & S. SWANBUM.
COLLAPSIBLE REEL FOR WIRE.
APPLICATION FILED JULY 22, 1910.

1,036,643.

Patented Aug. 27, 1912.



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UNITED STATES PATENT OFFICE.

WILLIAM A. KILMER AND SANFORD SWANBUM, OF DE KALB, ILLINOIS, ASSIGNORS
TO THE AMERICAN STEEL & WIRE COMPANY OF NEW JERSEY, OF CHICAGO,
ILLINOIS, A CORPORATION OF NEW JERSEY.

COLLAPSIBLE REEL FOR WIRE.

1,036,643.

Specification of Letters Patent.

Patented Aug. 27, 1912.

Application filed July 22, 1910. Serial No. 573,216.

To all whom it may concern:

Be it known that we, WILLIAM A. KILMER and SANFORD SWANBUM, both of De Kalb, in the county of Dekalb and State of Illinois, have invented certain new and useful Improvements in Collapsible Reels for Wire, of which the following is a specification.

Our invention relates to reels for wire and particularly for barbed wire and has particular reference to a reel of simple construction which may be collapsed before and after use.

The custom in marketing barbed wire has been to reel the same upon rigid wooden reels, which reels, if any quantity thereof is to be kept on hand, occupy a large storage space.

Our invention further relates to a reel of this sort, which shall provide means for the ready unreeling of the bundle of wire when it is to be used by the consumer.

The reel described in this application is the same as that shown in our co-pending application filed of even date herewith for supports for collapsible wire reels, Serial No. 573,217.

Our invention will be more readily understood by reference to the accompanying drawings, wherein,

Figure 1 is a perspective view of our reel showing in dotted lines a bundle of wire wound thereon; Fig. 2 is a perspective view showing the reel collapsed, and Fig. 3 is a fragmentary section through one of the end pieces of the reel.

As will be seen from the drawings, the reel is composed of duplicate end portions, 5—6, which are preferably in the form of a channel having webs, 7—8, and flanges, 9—10. Each channel end portion is provided with five openings, the purpose of which will now be described.

The opening, 11, midway of the length of the end portions, is provided for an unreeling arbor. As will be readily understood, it is necessary that some means should be provided whereby the bundle of wire can be securely mounted while the wire is being removed therefrom. The holes, 12—12, are preferably punched out as shown, the lip of

metal punched out being adapted to be bent over backward and to form a clip or clamp for the cross wires. The small openings, 13—13, are provided for the accommodation of binder wires, 13^a, which are applied after the wire has been wound on the reel.

In order to provide a connection between the two end portions of the reel, we provide the cross or stay wires, 14—15, which are bent to rectangular outline and joined as at, 16—17. The portions which pass over the channel end portions, 5—6, are securely held against removal by the clips, 18—19, formed of the metal punched from the openings, 12—12.

It is essential that a reel of this sort shall be provided with four cross wires instead of two or one, in order that there may be a bearing for the wire at a plurality of points to enable the bundle of wire to be completely unwound. As described in our co-pending application mentioned above, it has been found essential that the wire in winding should, at its central portion or opening through the bundle, be wound as nearly in a circle as possible, and for this purpose we have provided a reel support which has at least six cross members, thus having a substantially circular bearing for the wire. It will therefore be readily understood that the openings, 12—12 are necessary in order to accommodate the cross members of such a support and that these openings form an important part of our invention.

The object in making the end portions of the reel of channel shape is to secure the maximum strength with the minimum weight of metal.

As various modifications will readily suggest themselves to those skilled in the art, we do not limit ourselves to the specific construction herein shown and described.

We claim:

1. A skeleton wire reel for barbed wire, comprising channel shaped end portions and provided with through openings for the accommodation of an unreeling arbor and the cross members of a reel support, and a plurality of connecting wires between said end portions, substantially as described.

2. A skeleton wire reel for barbed wire,

comprising channel shaped end portions
and provided with through openings for the
accommodation of an unreeling arbor and
the cross members of a reel support, and a
5 plurality of connecting wires between said
end portions, said cross wires being secured
to said end portions by means of clips struck

up from the material of the end portions,
substantially as described.

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