

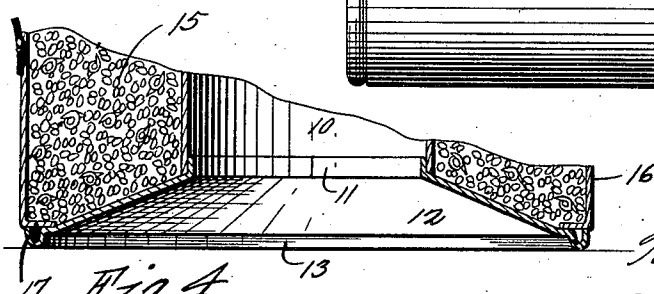
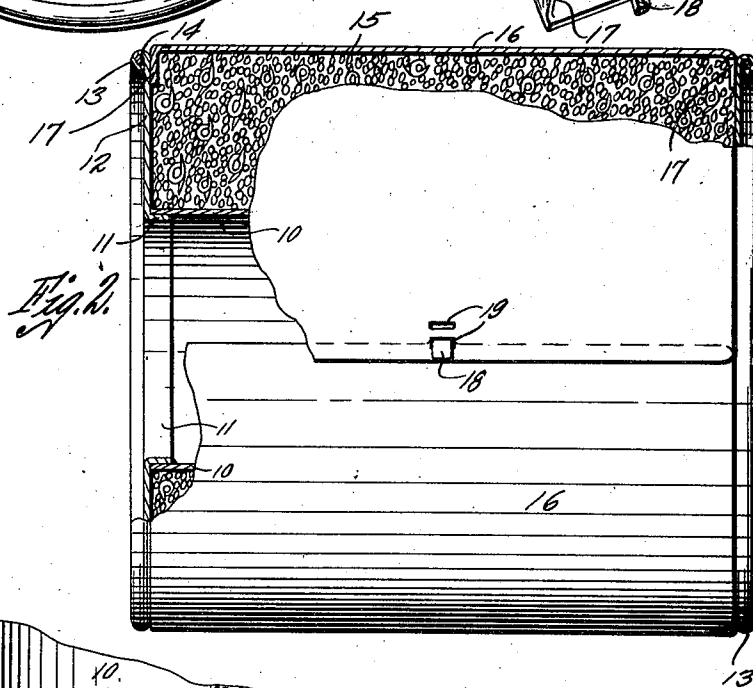
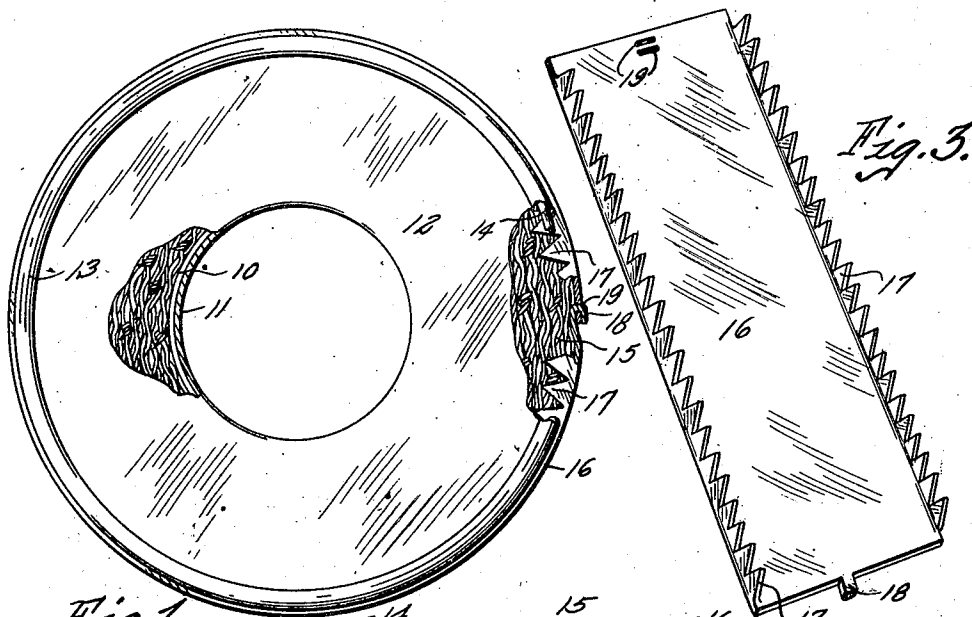
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REEL FOR BARBED WIRE

Filed March 22, 1926



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UNITED STATES PATENT OFFICE.

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REEL FOR BARBED WIRE.

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It is now customary for manufacturers of barbed wire to provide reels made of wooden strips, and upon which a quantity of barbed wire is wound, and when thus wound the
5 barbs are exposed not only throughout the circumference of the barb wire on the reel, but at the ends thereof between the wooden strips. It is an extremely hazardous occupation to handle these wooden reels with
10 barbed wire wound thereon. The only opportunity that a workman has in grasping the reels without injury from the barbs is by attempting to grasp the wooden strips at the ends, but inasmuch as these wooden
15 strips are relatively small and the barbs project toward them from both edges of every strip, the operator in handling them frequently comes in contact with the barbs, and ordinary gloves will not afford protection
20 against injury to the hands by the barbs.

Furthermore, when an operator attempts to carry a reel of this character containing barbed wire, the circumference of the barbed wire on the reel is usually held adjacent to
25 the operator's clothes and the clothes are frequently torn and the operator injured.

My object is to provide a reel for barbed wire of simple, durable and inexpensive construction, so constructed and arranged that
30 the reel with the barbed wire thereon may be readily and easily handled without danger to the operator, and whereby the numerous injuries heretofore caused by handling barbed wire reels are entirely done away
35 with.

More specifically in this connection, however, it is my object to provide a reel so constructed and arranged that when it is
40 standing upon a floor or the like on one end, the operator may readily and easily insert his hand and arm through the hollow core of the reel and project his fingers outwardly across the end of the reel, and thus
45 readily and easily pick up and carry the reel safely and conveniently, and without gloves.

A further object is to provide an improved protector sheet for the exposed outer surface of the barbed wire reel formed of a single
50 piece of inexpensive sheet metal, and which may be readily, quickly and easily applied to or detached from the reel without the use of tools, and when applied will be firmly and immovably held in position for
55 shipment and handling.

My invention consists in the construction,

arrangement and combination of the various parts of the device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims, 60 and illustrated in the accompanying drawings, in which:

Figure 1 shows an end elevation of a reel for barbed wire embodying my invention, parts thereof being broken away to show the 65 interior construction.

Figure 2 shows a side elevation of same with parts broken away to show the interior construction.

Figure 3 shows an isometric view of the 70 cover member before being applied; and

Figure 4 shows a detail, central, longitudinal section of the lower portion of the reel embodying my invention, and illustrating a modified form. 75

Referring to the accompanying drawings, I have used the reference numeral 10 to indicate the hollow core. This is preferably made of a single strip of inexpensive sheet metal rolled to form a tube of such diameter 80 that an operator may readily insert his hand and arm through it. The material and the size and shape of this element is substantially that of an ordinary commercial stove pipe. 85

Each end member of the reel is formed of a single piece of inexpensive sheet metal in the form of a circular disk with a large central opening, surrounding which is an in-turned flange 11 to enter the core member 10. 90 I preferably permanently connect this flange 11 to the core member 10 by the well known spot welding process. The body portion of the end is of disk shape and indicated by the numeral 12, and at the circumference 95 thereof I have formed a rounded bead or rib 13 extended outwardly, and this rounded bead or rib may be formed around a wire core 14. This wire core 14, however, may be omitted if the sheet metal of which the end 100 member is formed is relatively heavy. A length of the barbed wire is wound around the reel, thus formed, and this wire is indicated generally by the numeral 15.

After the wire has been wound upon the 105 reel, the protecting cylinder is applied, and this cylinder comprises a body portion 16 formed of inexpensive sheet metal and provided at both of its edges with pointed projections 17 extended at right angles to the 110 body portion. At one end there is formed a tongue 18, and near the opposite end one or

more slots 19 to receive the tongue. This protecting cylinder is applied to the barbed wire by rolling it around the circumference of the reel with the pointed projections 17 entering between the inner faces of the end disks 12 and the adjacent portions of the barbed wire, as clearly illustrated in Figure 2. Then after the protecting cylinder has encircled the barbed wire, the tongue 18 is extended through the slot 19 and bent over, as clearly shown in Figure 2.

It frequently happens that the wire is not wound in the form of a perfect cylinder around the core 10, and that it projects at some places more than at others. This, however, does not interfere to any material extent with the application of my improved outer protecting shell, because it does not make any difference whether the protecting cylinder is spaced from the core outwardly or inwardly to limited distances, because in any event the point of the projections 17 are wedged between the ends of the reel and the body of the wire, and will prevent any lateral movement of the protecting cylinder 16. Furthermore, these pointed projections 17 when assembled will prevent any of the barbs of the wire from projecting outwardly between the cover member 16 and the adjacent end of the disk 12, and each point of the projections 17, when it is firmly wedged into position, serves as an anchoring member to prevent any displacement of the protecting member 16 that might be occasioned by rough handling of the reel.

The end disks 12 may be made of relatively light, thin and inexpensive sheet metal, because each end is reinforced by the inwardly extended flange 11 spot welded to the core 10, and by the outwardly extended rib 13 at its circumference. This outwardly extended rib 13 performs an additional and important function in connection with my device, because when the reel is placed upon a floor or other surface, resting upon one end, the operator may readily and easily insert one hand and arm downwardly through the core 10 and project his fingers under the adjacent portion of the lower disk 12, and in this manner he may use one hand and arm for two separate reels, so that he can pick

them up and hold them in a convenient position for carrying, and thus safely pick up and carry two reels at one time, whereas with the old form of wooden reels, it was a more difficult and dangerous task for an operator to pick up and carry a single reel.

In the modified form illustrated in Figure 4, I have shown the disk 12 as being inclined slightly outwardly relative to a radial line. This modified form has the advantage of giving the operator more room in which to insert his hand for grasping the under surface of the reel, after he has inserted his hand downwardly through the central core. Furthermore, this modified form gives additional bracing strength to the parts without additional cost.

I claim as my invention:

1. An improved reel for barbed wire, comprising in combination a central hollow core member, two disk shaped end members fixed thereto and designed to receive a quantity of barbed wire wound thereon, and a protecting outer member formed of sheet metal and provided with pointed projections at its edges arranged substantially at right angles to the body portion and shaped to be wedged between the end disks and the body of wire wound thereon, for the purposes stated.

2. An improved reel for barbed wire, comprising in combination a central core formed of a sheet metal cylinder of relatively large diameter, two disk shaped end members formed of sheet metal and each provided with a central opening and an inwardly extended flange surrounding said opening and projected into the interior of the central core and firmly secured thereto, an outwardly extended rib or bead near the periphery of the end member, a protecting outer member formed of sheet metal and having at its edges straight pointed projections designed to be wedged between the inner faces of the end disks and a quantity of barbed wire wound upon the reel, and means for adjustably and detachably connecting together the ends of said protecting strip when wound upon the reel.

Des Moines, Iowa, March 11, 1926.

HENRY J. PETERSON.