

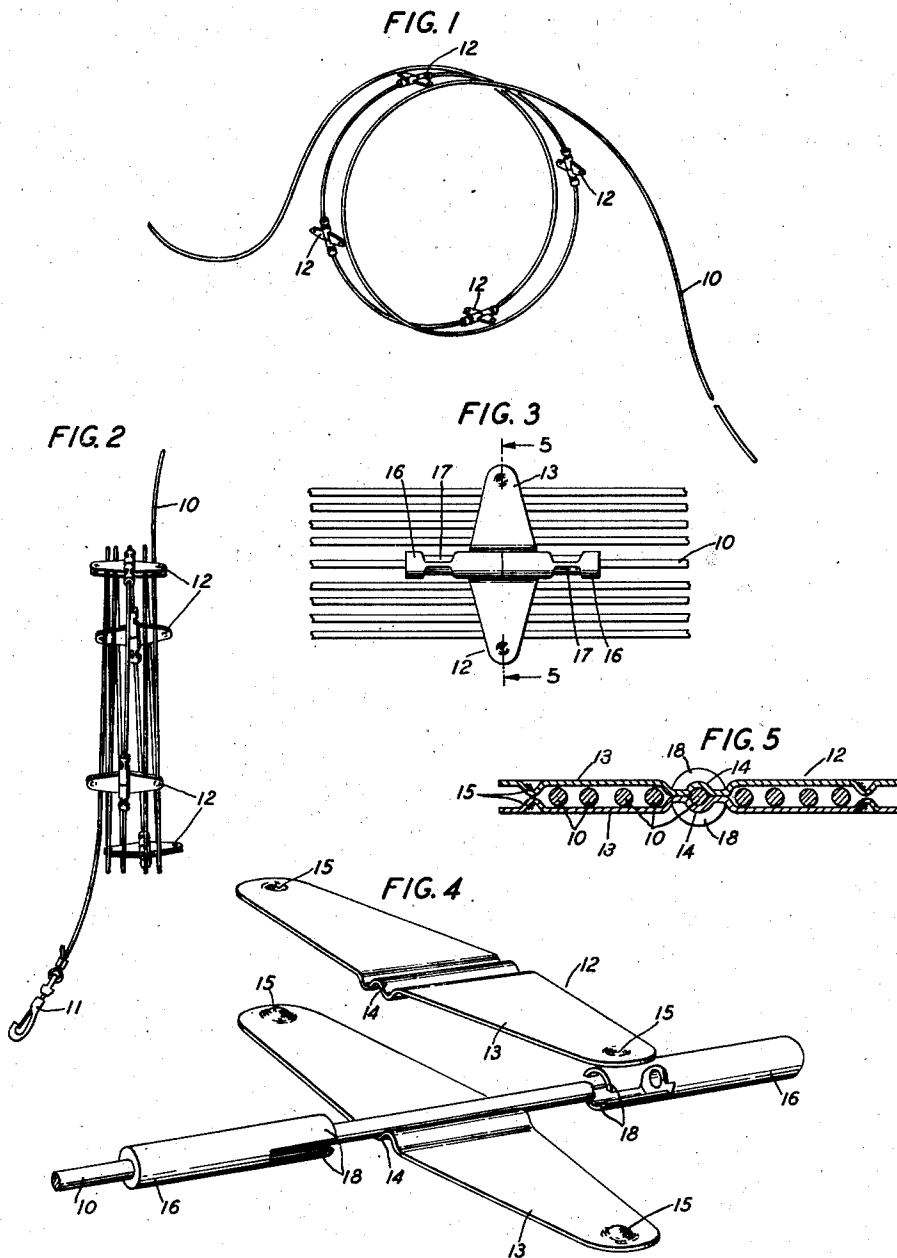
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CLIP FOR COILING WIRE

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CLIP FOR COILING WIRE

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This invention relates to reeling devices.

One object of this invention is to facilitate the repeated coiling and paying out of a length of wire.

Another object of this invention is to simplify the construction of reeling devices and, more specifically, to obviate the use of a mount or holder separate from the wire itself.

In accordance with one feature of this invention, a length of wire is provided at spaced points thereof with a plurality of pairs of resilient members, each pair cooperating to provide clips defining one or a pair of channels for receiving successive turns of the wire and the resilient members having engaging portions which serve to prevent accidental withdrawal of the wire from the channels but allow ready insertion of the wire into the channel and desired paying out of the wire.

The invention and the above-noted and other features thereof will be understood more clearly and fully from the following detailed description with reference to the accompanying drawing, in which:

Fig. 1 is a perspective view of a wire and clip assembly illustrative of one embodiment of this invention, the wire being partly uncoiled;

Fig. 2 is a side view of the assembly, the wire being shown in its coiled condition;

Fig. 3 is a detail view illustrating the association of the wire and the clips;

Fig. 4 is an exploded perspective view showing details of construction of the clips; and

Fig. 5 is a sectional view through one of the clips with the wire in the channels therein.

Referring now to the drawing, the assembly therein illustrated comprises a length of wire 10 having a swivel hook 11 attached to one end thereof and having thereon, at equally spaced points, a plurality of clips 12.

Each of the clips, as shown clearly in Figs. 3 and 4, comprises a pair of similar resilient members 13, for example of sheet metal, having a central flute or hub portion 14 and advantageously tapering outwardly in both directions from the hub portion 14. The resilient members 13 are provided adjacent their ends with indents or rounded protuberances 15, the two members being associated so that normally corresponding protuberances contact. The resilient members 13 are locked securely to the wire 10 by a pair of sleeves each having a tubular body portion 16 slidably fitted on the wire 10 and crimped, as indicated at 17 in Fig. 3, to secure the sleeves to the wire. The sleeves include also a slotted

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tubular portion 18 adapted to fit over the flutes or hub portions 14, the slots being of length substantially equal to one-half the width of the central portions of the members 13. When the clip is assembled, the slotted tubular portions 18 are substantially in abutting relation, as shown clearly in Fig. 3, so that the resilient members 13 are firmly held in place.

As is apparent, each pair of resilient members 13 defines a pair of channels into or out of which the wire 10 may be slipped over the contacting protuberances 15. The latter serve to prevent accidental withdrawal of the wire and also form guides over which the wire slides as it is coiled or payed out.

In use of the assembly, the portion of the wire between the outermost clips is formed into a loop and the wire then is pressed over the guides defined by the protuberances, into the channels formed by the resilient members 13. Thus, the wire is coiled readily into a compact assembly which can be transported readily or stored. When it is desired to pay out the wire, one or both ends may be pulled, whereby successive portions are drawn out of the channels over the protuberances 15. Tangling of the turns of the coiled wire is prevented, yet the wire may be payed out with but little pulling force being exerted.

Although a specific embodiment of the invention has been shown and described, it will be understood that it is but illustrative and that various modifications may be made therein without departing from the scope and spirit of the invention as defined in the appended claims.

What is claimed is:

1. In combination, a length of wire and a plurality of clips mounted thereon at spaced points thereof, each of said clips comprising a portion affixed to said wire and having therein a channel through which said wire extends longitudinally, and a pair of cooperating resilient fingers extending outwardly from the wire and defining a channel for receiving successive loops of said wire.

2. In combination, a length of wire and a clip mounted thereon, said clip comprising a pair of cooperating resilient members each having an intermediate hub portion affixed to said wire and a pair of fingers extending outwardly from said hub portion, the two hub portions of said members defining a rectilinear channel through which the wire passes and the fingers of said members defining a pair of channels for holding loops of said wire.

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3. In combination, a length of wire and a clip mounted thereon, said clip comprising a pair of juxtaposed resilient members having their central portions in juxtaposition, fluted to embrace a section of said wire and affixed to said wire and said members having outwardly extending fingers normal to said wire and defining a pair of channels for receiving loops of said wire, corresponding fingers having contacting protuberances adjacent the outer ends thereof.

4. In combination, a length of wire and a clip mounted thereon for receiving loops of the wire, said clip comprising a pair of members each having a hub portion fitted to said wire and a resilient finger extending from said hub portion, the two fingers being in juxtaposition and spaced to define a channel, and a pair of sleeve members affixed to said wire and locking the hub portions of said first members thereto.

5. In combination, a length of wire and a clip carried thereby for receiving loops of the wire, said clip comprising a pair of cooperating strip

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members each having a hub portion fitted on said wire and a pair of resilient fingers extending outwardly from said hub portion, corresponding fingers of said strip members being in juxtaposition to define wire receiving channels and having normally contacting protuberances adjacent the outer ends thereof, and a pair of sleeve members affixed to said wire and each having end portions fitted over the hub portions of said strip members, the end portions of said sleeve members being in juxtaposition and cooperating to lock said strip members to said wire.

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REFERENCES CITED

The following references are of record in the file of this patent:

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Number	Name	Date
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