

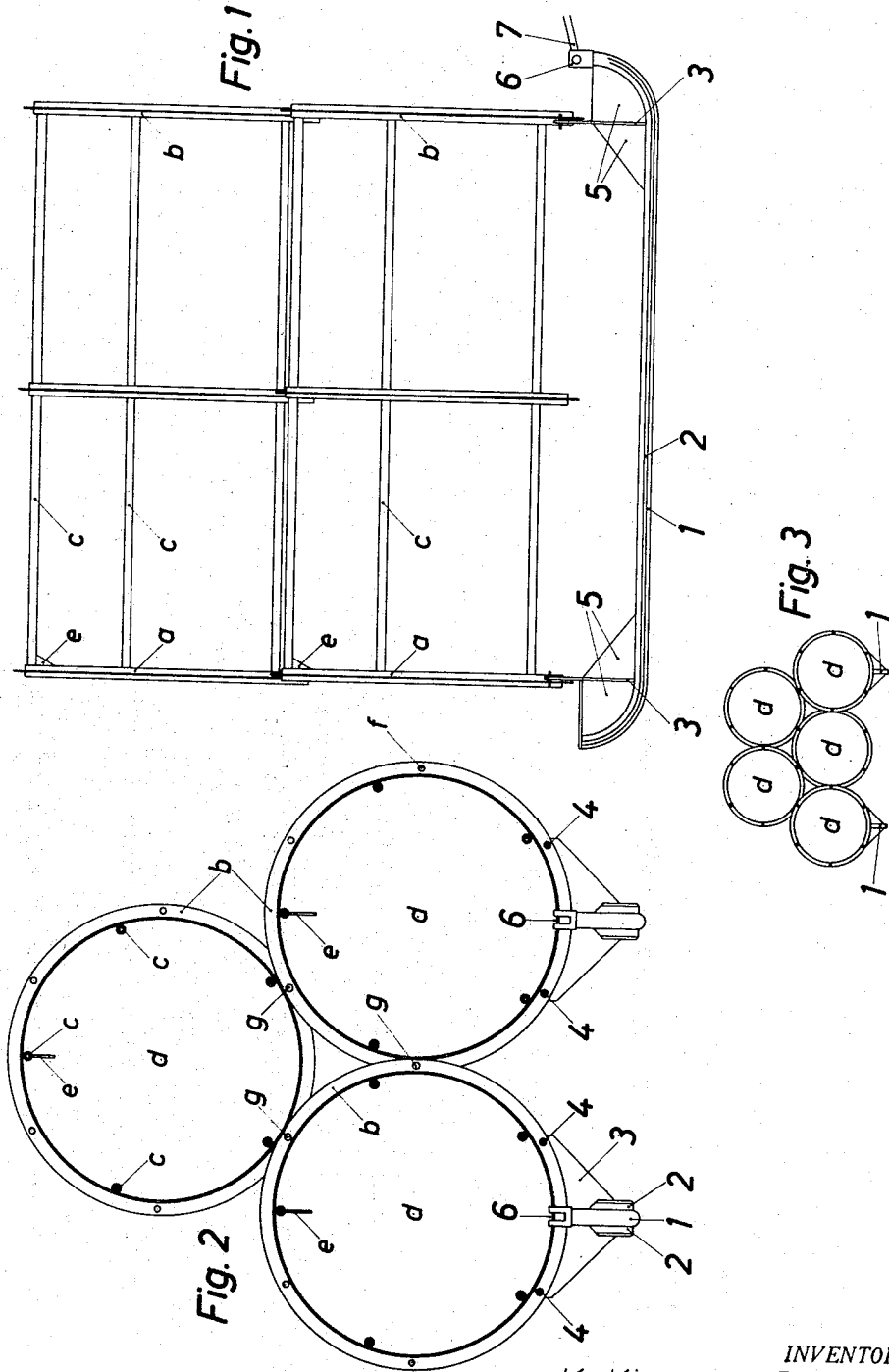
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SLIDE RUNNERS FOR A DEVICE FOR LAYING BARBED WIRE COILS

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## SLIDE RUNNERS FOR A DEVICE FOR LAYING BARBED WIRE COILS

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9 Claims. (Cl. 280—12)

### ABSTRACT OF THE DISCLOSURE

This disclosure relates to a sled-like device having one or more slide runners. Each runner is secured to a tubular frame by a transverse flange at each end of each runner attached to an associated end of the tubular frame. Three or more tubular frames are secured together by ends of the frames being bolted together. Each frame is normally bolted to each of two other frame members. The frame members and the runners are each of tubular construction, the runners each having fins extending longitudinally thereof and being arcuately upturned at the ends thereof.

The present invention concerns a slide runner for laying down a barbed wire barrier.

It is known to use tubular frames to facilitate the laying down of wire coils provided with barbs, the adjacent convolutions of which are so inter-connected at points distributed over the periphery that the coil can be pulled apart in concertina fashion into an open tubular shape. Three such tubular frames each adapted to support a wire coil, may be arranged in juxtaposition by annular flanges which have six apertures evenly distributed over their circumference, two adjacent tubular frames being connected together by aligning one each of their apertures and passing a bolt or stud therethrough, the third tubular frame being similarly mounted above the butt joint formed between the two adjacent frames.

For pulling apart and laying a barbed wire barrier, the tubular frames are progressively displaced from an anchorage point for the barrier, hitherto the tubular frames having been mounted preferably on vehicles having a simple platform.

The object of the present invention is to provide a slide runner attachable to the annular flanges of the tubular frame unit.

According to the present invention there is provided a slide runner for attachment to the flanges of a tubular member, said slide runner having front and rear flanges extending transversely thereof and adapted to be bolted to the corresponding flanges of the tubular member by means of the two lowermost apertures therein.

A slide runner in accordance with the invention has the advantage that the centre of gravity of the tubular frame unit assumes a position close to the ground to be provided with the barrier, so that the progressive displacement by whatever means it is to be carried out, can be quickly carried out.

Furthermore, as it is no longer necessary to depend upon the existence of a lorry or other chassis, to move the tubular frames during laying tubular frames may be stored at sites which in an emergency require barriers put up such as, for example, power stations, pumping stations etc. The slide runners thus form a simple and cheap means to enable and facilitate laying of barbed wire coils. The slide runners moreover permit several tubular frames to be connected to a unit width which is too wide to permit accommodation on the platform of a

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lorry thus making it possible to erect larger barriers. Finally, the use of sliding runners permits the barbed wire barrier to be collected again, because the tubular frame unit assumes a position which is close to the ground and the runners are adapted to be displaced in both directions.

Preferably the runners are of tubular construction as this forms a particularly stable form of structure. Longitudinally extending lateral fins may, if necessary, increase the supporting area. An upward bend is conveniently provided at the front and rear of the runners and a towing eyelet may be provided for the attachment of tension cables the like for hitching to a lorry, tractor, horse or even to enable the unit to be towed by manpower.

The invention will now be described further, by way of example, with reference to the accompanying drawings, in which:

FIG. 1 is a side elevation of an apparatus in accordance with the invention;

FIG. 2 is an end view of the apparatus shown in FIG. 1; and

FIG. 3 a schematic end view of a further embodiment of the invention, shown on a reduced scale.

Two ring flanges *a*, *b* are interconnected by means of inward longitudinal rods *c* to form a tubular frame *d*. One of the longitudinal rods, that assuming the upper position, supports a locking mandrel *e* on the orifice end. The ring flanges each have six stud holes *f* spread evenly over the circumference, whereby two holes *f* of each tubular frame *d* are coupled each to an associated hole in a different adjacent frame, by means of studs *g* which may be secured by means of a split pin or screw connection, whereby a total of three coupling points are effected at the studs *g*, as illustrated in FIGURE 2. Such a unit is known.

In accordance with the invention one runner each is provided for the two outermost and lowermost tubular frames. The runner comprises a tube **1** bent up at the front and rear end, having longitudinally extending lateral fins on both sides to increase the supporting area and front and rear flanges **3**. Each of the flanges **3** are connected to an associated one of the ring flanges *a*, *b* through two stud holes *f*, with holes **4** of the flanges **3** registering with the stud holes and connected therethrough. Bracing plates **5** further support the fixing flange **3** on the tubular runner **1**. A suspension eyelet **6** serves to attach a traction towing means (cable or rod) **7**.

FIG. 3 indicates the forming of a tubular frame unit formed of five tubular frames in a width too great to be accommodated on the platform of a lorry.

We claim:

1. An apparatus comprising a plurality of frame members each of said members having spaced end flange portions, means for connecting each end flange portion of each of said frame members to an associated end flange portion of at least one other frame member with the frame members being connected together and having generally parallel longitudinal axes, at least one longitudinally disposed slide runner secured to at least one of said connected frame members, said slide runner being provided with a transverse flange secured to an associated end flange portion.

2. The apparatus of claim 1 wherein each end flange portion includes a plurality of connection holes and each transverse flange is provided with connection holes aligned with associated holes in an end flange portion, associated aligned connection holes having a common connection member therethrough.

3. The apparatus of claim 1 wherein each said runner is of tubular construction.

4. The apparatus of claim 3 wherein lateral fins project

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from each side of the tubular runner and extend substantially the full length of the runner.

5. The apparatus of claim 1 wherein each runner has upwardly bent end portions.

6. The apparatus of claim 1 wherein one end of each runner is provided with a towing eyelet. 5

7. The apparatus of claim 1 wherein said connecting means comprise apertures having common connection members therebetween.

8. The apparatus of claim 1 wherein three frame members are provided, each end flange portion of each frame member connected at one point to an end flange portion of each other frame member. 10

9. The apparatus of claim 1 wherein longitudinally

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disposed flanges are provided at ends of the runners connecting transverse flanges to slide runners.

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