Jan. 31, 1956 W. P. EDEN 2,733,024

COMBINED HOSE CARRIER AND STORAGE TIE

Filed Nov. 29, 1951

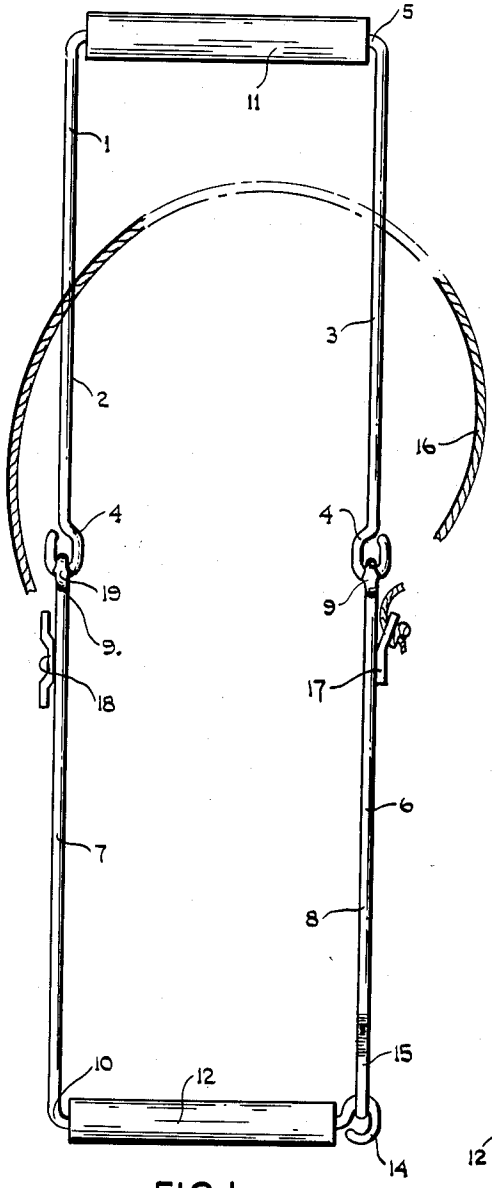


FIG. 1

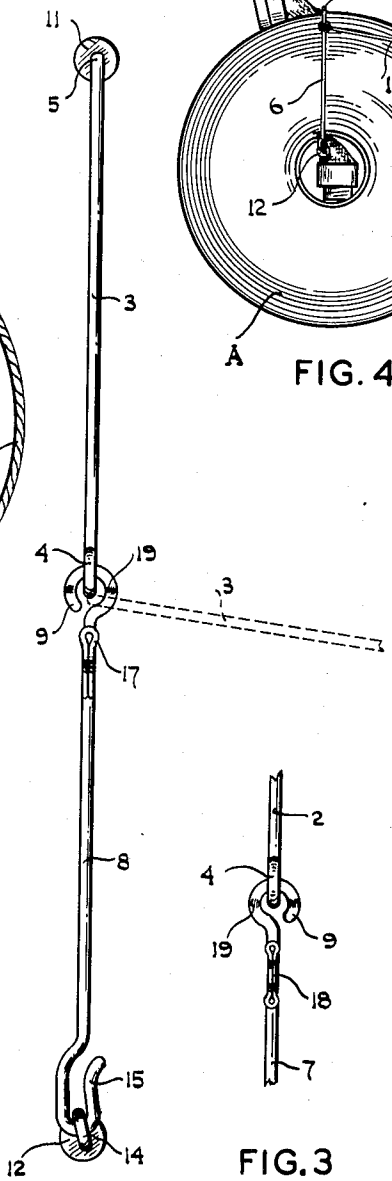


FIG. 2

FIG. 4

FIG. 3

Inventor

WILLIAM PAUL EDEN

by W. Jervis Haskett.

Attorney

United States Patent Office 2,733,024 Patented Jan. 31, 1956

2,733,024

COMBINED HOSE CARRIER AND STORAGE TIE

William Paul Eden, Port Arthur, Ontario, Canada

Application November 29, 1951, Serial No. 258,806

1 Claim. (Cl. 242—86)

This invention relates to improvements in a combined hose carrier and storage tie and appertains particularly to a device for laying hose in forest fire operations.

An object of the invention is to provide a hose-laying carrier that is easily and securely applied to a roll of hose and from which the hose can unwind just as fast as the person carrying it can move through the woods.

A further object of the invention is to provide a carrier that serves also as a tie for the neatly wound hose rolls when they are in storage and thus is instantly available as an unwinding carrier already on the hose when a fire line is to be layed.

A still further object of the invention is to provide a carrier for easily and quickly laying rolled hose, of the nature and for the purpose set forth, that is light in weight, efficient in use and capable of production at reasonable cost, whereby the same is rendered commercially desirable.

To the accomplishment of these and related objects as shall become apparent as the description proceeds, the invention resides in the construction, combination and arrangement of parts as shall be hereinafter more fully described, illustrated in the accompanying drawings, and pointed out in the claim hereunto appended.

The invention will be best understood and can be more clearly described when reference is had to the drawings forming a part of this disclosure wherein like characters indicate like parts throughout the several views.

In the drawings:

Figures 1 and 2 are front and side elevations respectively of the carrier;

Figure 3 is an elevational detail of the mid-part of the carrier as seen from the side opposite that shown in Figure 2; and

Figure 4 is a side elevation, in reduced size, of the carrier applied to a roll of hose and serving as a storage tie therefor.

A very simple form of this hose laying device as illustrated herewith consists of a two-part metal frame of substantially elongated rectangular form, hingedly jointed mid-way of its length and having a hose-carrying roller and a hand grip respectively on opposite ends.

As seen clearly in Figures 1 and 2 the hose carrier frame comprises a U-shaped or bail-like wire **1** having a pair of spaced parallel arms **2** and **3** with an eyelet **4** on the free end of each and joined at their opposite ends by a straight base portion **5** at right angles to said arms; and a second U-shaped wire bail **6** of substantially similar size and likewise having a pair of spaced parallel arms **7** and **8** with eyelets **9** on their free ends and a straight cross base **10** at their other ends. The eyelets **9** on the arms of the second bail **6** lie in a plane at right angles to and couple with the eyelets **4** on the arms of the first mentioned bail-like wire **1**, allowing either member to swing through approximately 360 degrees with respect to the other.

A tubular handle grip **11** is mounted on the cross base

5 of the first bail-like wire **1** and a hose-carrying roller **12** is mounted on the cross base **10** of the second wire bail **6**.

To permit the easy application of this hose carrier to a roller length of hose, as indicated at A in Figure 4, the second wire bail **6** is formed in two parts, with one part in the shape of an L composed of the eyeleted arm **7** and the cross base **10** and the other part composed of the arm **8**; the free end of the base **10** of the first part having a roller-confining loop **14** thereon and the adjoining end of the arm **8** terminating in a hook **15** releasably engaged in said loop. A tie for retaining said hose in roller condition for storage and transportation is provided in the form of a cord **16** secured at one end by an anchor or keeper **17** on one arm of said second wire bail **6** and passing over the outermost layer of the hose roll is disconnectibly attached to a capstan **18** on the opposite arm of the said bail. When thus applied to a hose roll, with the hose-carrying roller **12** extending through the center of the roller hose, the outer wire frame **1** is swung on its eyelet hinge joint through an angle of more than 90° from the straight line until the handle grip **11** engages the circumference of the hose roll A in the compact position shown in Figure 4. The handle end or carrying bail **1** is retained in this hinged or collapsed storage position by frictional binding of the hinge eyelets **4** and **9** on certain of which surface irregularities such as the raised ridges **19** occur.

On each eyelet **9** are two pairs of ridges **19** which are horizontally aligned across the eyelet opening from one another as viewed in Figs. 2 and 3. The ridges of each pair lie respectively upon opposite side faces of the eyelet **9** and are diametrically aligned with one another. The distance between the tips of the ridges of one pair is greater than the width of the opening in eyelet **4** of the carrying bail **1**, as can be seen in Fig. 1. As the carrying bail **1** is moved with force toward the periphery of the hose roll, the eyelet **4** is sprung over either pair of ridges **19** depending on which side of the hose roll to which it is forced, so that the ridges **19** lock the bail against free outward movement from the hose roll and in a position similar to that shown in Fig. 4 and at an angle of approximately 90 degrees with respect to the hose bail **6**. To release the carrying bail **1** similar force is used to spring the eyelet **4** over the ridges **19** as the carrying bail **1** is moved outwardly from the hose roll and in the open position to permit the use of the carrier for distributing the hose from its roll and along the ground.

From the foregoing description taken in connection with the accompanying drawings, it will be manifest that a hose carrier is provided that will fulfill all the necessary requirements of such a device, but as many changes could be made in the above description and many apparently widely different embodiments of the invention may be constructed within the scope of the appended claim, without departing from the spirit or scope thereof, it is intended that all matters contained in the said accompanying specification and drawings shall be interpreted as illustrative and not in a limitative or restrictive sense.

Having thus described the invention, what is claimed as new is:

In a hose laying device, a first U-shaped handle carrying bail having spaced parallel arms and a base handle portion joining the arms together, eyelets formed on said arms and extending in a plane running through the arms and the handle portion, a second U-shaped hose carrying bail of similar size and having spaced parallel arms, said arms having eyelets extending respectively at right angles through eyelets of the arms of the first U-shaped bail to permit the U-shaped bails to be swung approxi-

mately 360 degrees with respect to each other, said eyelets of the second bail having raised ridges on the sides thereof to frictionally retain the handle bail in a locked position upon the outer layer of a hose roll and at an angle of approximately 90 degrees with respect to the hose carrying bail, said second U-shaped hose carrying bail further having a cross base arm with an eyelet thereon extending at right angles from one parallel arm, a hose carrying roller journalled upon said cross base arm, the other arm having a hook portion extending at right angles to the eyelet on the cross base arm and releasably engageable therewith, tie cord means anchored to one arm of the second bail and adapted to pass over the outer layer of a hose roll, and a member on the other arm of the second bail to which the tie cord means can be disconnectably attached.

References Cited in the file of this patent

UNITED STATES PATENTS

849,358	Barmore	Apr. 9, 1907
1,407,167	Parsons	Feb. 21, 1922
1,795,597	Frissell	Mar. 10, 1931
1,981,673	Smith	Nov. 20, 1934

FOREIGN PATENTS

36,548	Austria	Oct. 15, 1908
136,068	Austria	Aug. 15, 1933
67,978	Norway	Aug. 29, 1942
564,056	Great Britain	Sept. 11, 1944