### Nov. 18, 1924.

 $\left( \right)$ 

•

## J. C. CATLETT ET AL

HOLDING DEVICE FOR COILS

Filed Aug. 4 1923

2

3

# 1,516,331



3

INVENTORS: foreph Award F. Veleon Hoof ATTORNEYS. a ΒY

•

# UNITED STATES PATENT OFFICE.

1,516,331

JOSEPH C. CATLETT AND EDWARD F. NELSON, OF EAST ORANGE, NEW JERSEY, AS-SIGNORS TO I. R. NELSON CO., A CORPORATION OF NEW JERSEY.

HOLDING DEVICE FOR COILS.

Application filed August 4, 1923. Serial No. 655,650.

Figure 2 is a side elevation thereof with 55 To all whom it may concern: Be it known that we, JOSEPH C. CATLETT the coil removed, and and Edward F. Nelson, both citizens of the Figure 3 is a transverse sectional view

5 in the county of Essex and State of New ing a coil of wire in position on the reel.

Patented Nov. 18, 1924.

10 for coils of wire, cord or the like, one object silient sheet metal and provided with a plu-15 cord and from which a desired amount of of the plane of the body portion, as clearly winding itself or becoming entangled by ceive a coil 4 of wire or the like between op-20 loosened or when the reel is dropped or laid economically constructed by slitting the down.

United States, and residents of East Orange, taken on the line 3—3 of Figure 1 and show-Jersey, have invented new and useful Im- In the specific embodiment of the inven- 60 provements in Holding Devices for Coils, of tion shown on the drawings, the reference which the following is a specification. character 1 designates the body portion of This invention relates to reels or holders the reel which is preferably formed of reof the invention being to provide a device of rality of equidistantly spaced radial arms 2. 65 this character embodying novel and im- Each of said arms is formed at its outer end proved features of construction which will with a plurality of integral fingers 3 alternate prevent accidental unwinding of the wire or ones of which are offset from opposite sides wire or cord can be unwound without the shown in Figures 2 and 3, said fingers be- 70 possibility of the remainder of the same un- ing preferably longitudinally curved to respringing off the reel when the end is posite ones thereof. These fingers may be arms 2 longitudinally and bending the 75 Another object is to provide a device of tongues formed by the slits to the desired the character described including a body shape. The outer extremities of the fingers portion having a plurality of series of fin- are preferably formed with curved noses 5, said series including a plurality of periph- the plane of the body portion being curved 80 erally spaced fingers alternate ones of which outwardly in opposite directions from the are offset from opposite sides of the plane of noses on the fingers at the opposite side of said body portion, to hold a coil of wire, the plane of the body portion to provide a said wire to be unwound from said coil one wire or the like between the fingers. In the s5 strand at a time without disturbing the re- present instance three fingers are shown on each of the arms 2, the two outside ones of Further objects are to provide such a de- said fingers being offset at one side of the to prevent accidental unwinding of said coil ing offset from the opposite side of the plane 90 like on said body portion between said fin- fingers of each arm at the inner ends of the said fingers; to provide such a device formed tion, so as to normally restrain a single 95 thereon in the usual manner, the con- 100 volutions of the coil passing between the noses 5 of the fingers of each arm 2 and into the space between the fingers, the fingers springing outwardly to permit the wire to pass therebetween, and this winding is con- 105 tinued until the space between the fingers is substantially filled. The body portion is preferably provided with a tongue 6

- <sup>25</sup> gers projecting from its periphery, each of the said noses of the fingers at one side of 30 string or the like between them and permit mouth or guideway for guiding a strand of mainder of the coil.
- **35** vice in which said fingers are so arranged as body portion and the intermediate finger beand yet permit easy winding of wire or the of the body portion. The portions of the gers and unwinding of said wire or the like noses 5 are in substantially the same plane 40 one strand at a time from said coil between and preferably in the plane of the body porof one piece of resilient sheet metal and hav- strand of wire or the like from passing outing said fingers integral with said body por- wardly from between the fingers. tion; to provide a device of this character The wire, string or the like to be 45 which is simple and inexpensive in construction mounted on the coil may be wound

tion, and to obtain other results and advantages as may be brought out by the following description.

Referring to the accompanying drawings, 50 in which the same reference characters designate corresponding and like parts,

Figure 1 is a front elevation of a reel or holder for wire or the like embodying our invention;

#### 1,516,331

stamped from one side thereof to receive the free end of the wire or string between it and the body portion, as clearly shown in Figure 1, and one edge of said tongue may **5** be sharpened to form a knife edge 7 for cutting or breaking a length of wire from the coil. After the coil has once been wound on the body portion between the plurality of series of fingers 3, it will be observed that 10 the coil is positively held in position on the body portion and can be removed only one convolution at a time, the single strand or convolution of the wire or string being forci- fingers on its periphery, certain of which bly pulled outwardly between the noses 5 15 of the fingers to unwind the wire from the coil, the opposite fingers springing outwardly in opposite directions to permit the wire to pass therebetween. After a convolution or strand of wire has passed be-20 tween the fingers of one of said series, the sitions to prevent the remainder of the coil upon or unwound from said coil only one from becoming accidentally unwound or strand at a time. tangled. After the desired length of wire or 25 string has been removed from the coil, the wire or string is slipped beneath the tongue 7 and the free end forced against the knife edge 7 which simultaneously breaks off the desired length of wire or string and secures 30 the remaining end beneath the tongue 6. Preferably the body portion is provided with a suitable handle or knob 8 arranged

2. A device of the character described in- 65 cluding a body portion having a plurality of fingers on its periphery, certain of which are offset from one side of said body portion and others of which are offset from the opposite side of the body portion, fingers at one side 70 of said body portion being adapted to cooperate with the others of said fingers to receive and support a coil of wire or the like between them.

3. A device of the character described in- 75

cluding a body portion having a plurality of are offset from one side of said body portion and others of which are offset from the opposite side of the body portion, and portions 80 of all of said fingers being disposed in substantially a common plane, whereby said fingers are adapted to receive and support a coil of wire or the like between them and said fingers spring back to their normal po- permit said wire or the like to be wound 85

4. A device of the character described including a body portion having a plurality of fingers on its periphery, alternate ones of 90 which are offset from opposite sides of the plane of said body portion and adapted to cooperate with each other to receive and hold a coil of wire or the like between them. 5. A device of the character described in- 95 cluding a body portion formed of resilient axially of the body portion which facilitates sheet metal and having a plurality of intethe unwinding of the wire from the coil, the gral fingers on its periphery, alternate ones said body portion, corresponding portions of 100 It will be understood that any number of the outer ends of all of said fingers being shape and size of the fingers and the body sheet metal and having a plurality of inte-105 portion but rigidly secured thereto. It will disposed in substantially a common plane, 110 115 metal and having a plurality of series of

35 body portion being preferably rotatable on of which are offset from opposite sides of the handle 8.

series of fingers may be utilized on the body disposed in substantially a common plane. portion and that each series may be com- 6. A device of the character described in-40 prised of any number of fingers. Also, the cluding a body portion formed of resilient portion may be varied, and while we have gral fingers on its periphery alternate ones shown the fingers formed integral with the of which are offset from opposite sides of body portion, we also contemplate the for- said body portion, corresponding portions 45 mation of the fingers separate from the body of the outer ends of all of said fingers being therefore be understood that many modifi- and alternate ones of said fingers having cations and changes can be made in the de- their outer ends curved outwardly in oppotails of construction of the reel or holder site directions to guide wire or the like into 50 without departing from the spirit or scope the space between said fingers to wind said of the invention, and we do not desire to be wire or the like on said body portion. understood as limiting ourselves except as 7. A device of the character described inrequired by the following claims when con- cluding a body portion formed of sheet strued in the light of the prior art.

Having thus described the invention, what integral fingers formed by slitting said body 55 portion inwardly from the periphery there- 120 we claim is:

1. A device of the character described in- of, each of said series including two fingers cluding a body portion having a plurality offset from the same side of said body porof series of resilient fingers thereon, each tion and an intermediate finger offset from 60 of said series including a plurality of op- the other side of said body portion to reposed fingers to receive a coil of wire or the ceive and support a coil of wire or the like 125 like between them and permit said wire or between them. JOSEPH C. CATLETT. the like to be unwound from said coil with-EDWARD F. NELSON. out bodily removing said coil.