

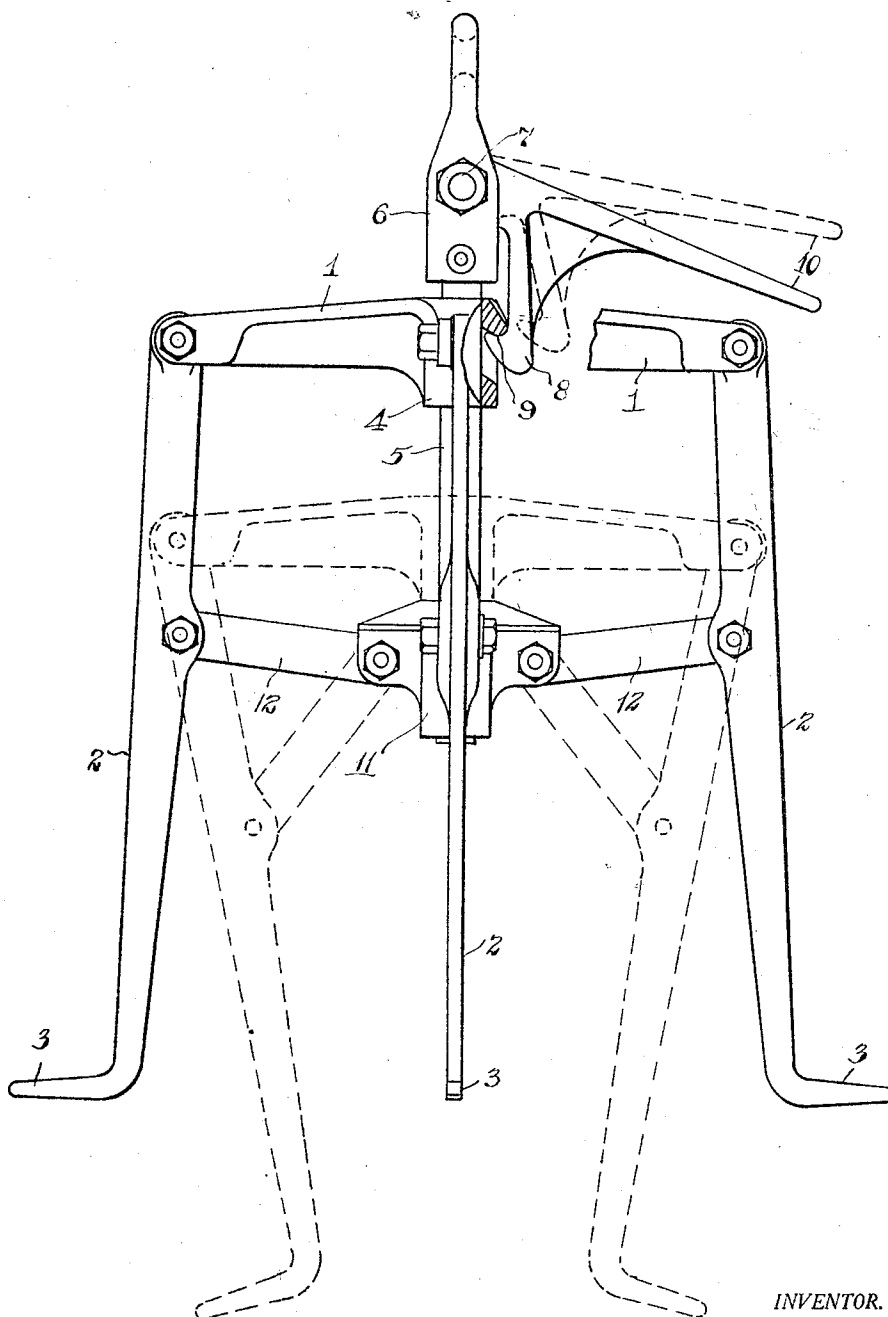
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WIRE BLOCK STRIPPING MECHANISM

Filed June 29, 1923



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WIRE-BLOCK-STRIPPING MECHANISM.

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To all whom it may concern:

Be it known that I, PHILIP V. TIPPET, a citizen of the United States, and a resident of Cuyahoga Falls, county of Summit and State of Ohio, have invented a new and useful Improvement in Wire-Block-Stripping Mechanism, of which the following is a specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle so as to distinguish it from other inventions.

As indicated, the object of my invention is to provide a mechanism or device for stripping or removing a coil or bundle of drawn wire from the block and enable the same to be transferred to a reel or other support without requiring such coil to be handled manually.

To the accomplishment of this object, the invention, then, consists of the means hereinafter fully described and particularly pointed out in the claims, the annexed drawing and the following description setting forth in detail certain mechanism embodying the invention, such disclosed means constituting, however, but one of various mechanical forms in which the principle of the invention may be used.

In said annexed drawing:—

The single figure there appearing is an elevational view of my improved stripping mechanism or device.

It will be understood that the device in question is designed for use with the familiar type of block employed on wire drawing benches, such block being made to taper upwardly and inwardly and having a flange at the bottom on which the coil or bundle of wire rests during and upon completion of the drawing operation. It is moreover usual to form such blocks with a plurality of vertical grooves or slots to receive the fingers of a stripping device (see for example U. S. Patent No. 423,015), so it has been deemed unnecessary to illustrate such block in the present connection but only the stripping device proper.

Referring to the drawing, such stripping device it will be seen comprises as its main element a spider 1 formed with a plurality of radially extending, equidistantly disposed arms to the outer end of each of which is pivotally attached about a transverse axis a depending lever 2 formed at its lower end

with an outwardly projecting finger 3. In the illustrated form the device is designed to comprise four such levers 2 and the spider 1 will accordingly have a corresponding number of radial arms.

Vertically reciprocally held in the hub 4 of the spider is a rod 5, to the upper end of which is fixedly secured an apertured head 6 that forms an eye wherewith a hook or like lifting means (not shown) may be engaged. There is also pivotally attached to said head 6 about a transverse axis 7 a hook 8 and the hub 4 is formed on its corresponding side with a notch 9 that provides an element wherewith such hook may engage. When thus engaged the hook serves to retain the spider in its upper position on the rod, but it may be detached from the spider by being swung outwardly through the medium of the integral handle 10 provided for this purpose; thereupon the spider is free to drop from the position shown in full lines to that shown in dotted lines in the figure.

Fixedly attached to the lower end of rod 5 is a stop member 11 upon which the spider rests in its lower position just referred to. Such member 11 also has attached thereto a plurality of toggle links 12 corresponding in number to that of the levers 2, the outer end of each such link being pivotally attached to the adjacent lever at a point intermediate its respective ends. The action of such links 12 it will be seen is to swing the levers 2 and thus the fingers 3 inwardly whenever the spider 1 is allowed to drop in the manner previously described. On the other hand, when the spider is raised, the links force the levers outwardly and if raised far enough the hook 8 will drop into the recess 9 in the hub of the spider and thereby lock the same in its raised position and such levers in their outer positions, all as shown in full lines in the figure of the drawing.

The manner in which this stripping device is employed in use may be readily explained. The device is not intended to remain in the block while the wire is being drawn, but when a bundle or coil is ready to be removed from such block, the device with the levers 2 in collapsed position shown in dotted outline is dropped onto the block with such levers disposed so as to enter the corresponding vertical slots or

grooves in the latter. When the lower ends of the levers strike the bottoms of the grooves, such levers are forced outwardly, bringing the fingers 3 thereon into position beneath the coil or bundle, and by this same action the spider 1 is automatically raised and locked in position by hook 8. Thereupon the stripping device is lifted by the eye at the top, taking with it the bundle or coil of wire, and when the latter is free from the block and has been transferred to the position where it is to be dropped, the hand lever 10 is raised to release the hook from the spider which allows the levers to collapse. Thus the coil or wire may be placed on a reel or elsewhere as desired.

Obviously, so far as the operation of the device of present interest is concerned, the block is merely typical of any suitable support for the formed roll of wire.

Other modes of applying the principle of my invention may be employed instead of the one explained, change being made as regards the mechanism herein disclosed, provided the means stated by any of the following claims or the equivalent of such stated means be employed.

I therefore particularly point out and distinctly claim as my invention:—

1. In a stripping device, the combination of a spider, a plurality of levers pivotally suspended from said spider at circumferentially spaced points and formed with outwardly directed fingers adapted to engage with a bundle of wire on a suitable support, a member vertically reciprocally mounted in said spider and operatively connected

with said levers to swing the same in or out as desired, said member being provided with external attaching means, and means adapted to lock said member and spider together.

2. In a stripping device, the combination of a spider, a plurality of levers pivotally suspended from said spider at circumferentially spaced points and formed with outwardly directed fingers adapted to engage with a bundle of wire on a suitable support, a rod vertically reciprocally mounted in said spider, links connecting the lower end of said rod with said levers, respectively, whereby said levers may be swung in or out as desired, said rod being provided with external attaching means, and means adapted to lock said rod and spider together.

3. In a stripping device, the combination of a spider, a plurality of levers pivotally suspended from said spider at circumferentially spaced points and formed with outwardly directed fingers adapted to engage with a bundle of wire on a suitable support, a rod vertically reciprocally mounted in said spider, links connecting the lower end of said rod with said levers, respectively, whereby said levers may be swung in or out as desired, the upper end of said rod being provided with external attaching means, and a hook pivotally attached to such upper rod-end and adapted to engage with said spider.

Signed by me this 15th day of June, 1923.

PHILIP V. TIPPET.