

Feb. 8, 1927.

1,616,453

R. KNABLE

WIRE FEEDING DEVICE

Original Filed Feb. 23, 1926

FIG. 2

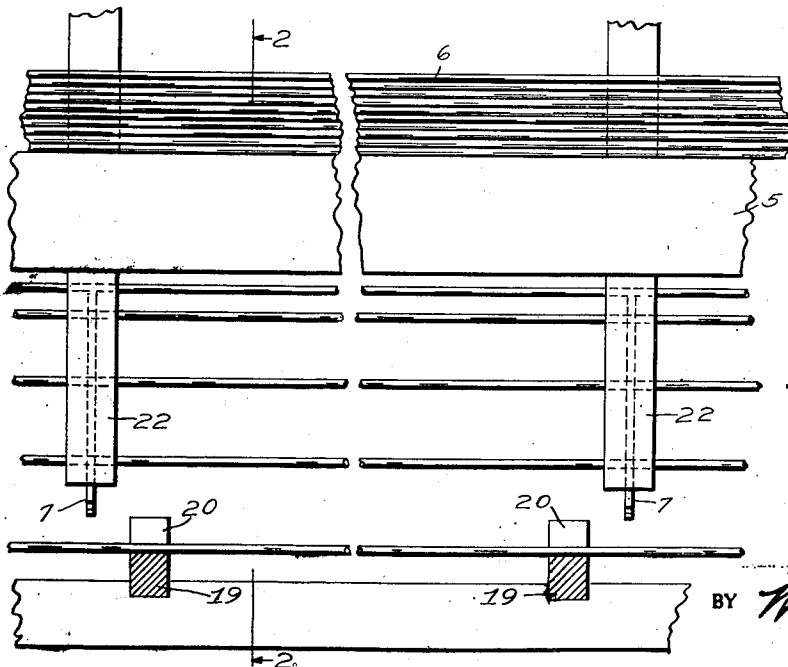
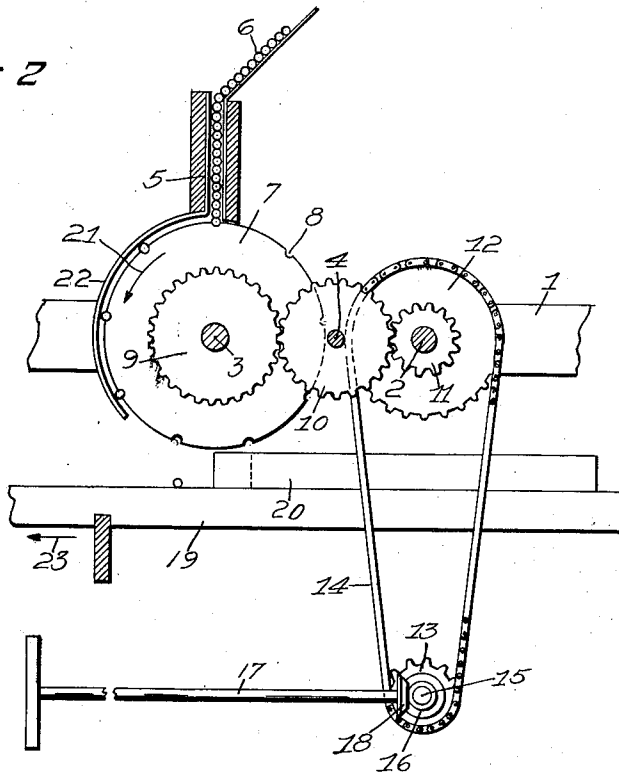


FIG. 1

INVENTOR

R. KNABLE

BY

*Munroe & Co.*

ATTORNEYS

## UNITED STATES PATENT OFFICE.

RAYMOND KNABLE, OF CHICAGO, ILLINOIS.

## WIRE-FEEDING DEVICE.

Original application filed February 23, 1926, Serial No. 90,168. Divided and this application filed July 2, 1926. Serial No. 120,181.

My invention relates to improvements in wire feeding devices, and it consists in the combinations, constructions, and arrangements herein described and claimed.

5 This application is a division of my co-pending application, Serial No. 90,168, filed February 23, 1926.

10 An object of my invention is to provide a wire feeding device which is especially adapted to feed wires to a coat hanger forming device.

A further object of my invention is to provide a device of the type described which will feed only one wire at a time.

15 A further object of my invention is to provide a device of the type described which will drop the wires at predetermined periods during the operation of the device.

20 Other objects and advantages will appear in the following specification, and the novel features of the invention will be particularly pointed out in the appended claims.

25 My invention is illustrated in the accompanying drawings, forming part of this application, in which—

Figure 1 is a front elevation of the device, and

Figure 2 is a section along the line 2—2 of Figure 1.

30 In carrying out my invention, I provide a frame 1 having shafts 2, 3 and 4 rotatably mounted thereon. The frame 1 supports a wire container 5 which is adapted to receive wires 6. A disc 7 having a plurality of semi-circular recesses 8 in the peripheral edge thereof is rigidly mounted upon the shaft 3 which is directly beneath the wire container 5.

40 A gear 9 is rigidly mounted upon the shaft 3 and is in mesh with an idler gear 10 which is mounted upon a shaft 4. The idler 10 is in mesh with a relatively small gear 11 which is rigidly mounted upon the shaft 2. A sprocket wheel 12 is rigidly mounted upon the shaft 2 and is operatively connected to a relatively small sprocket 13 by means of a chain 14. The relatively small sprocket 13 is mounted upon a shaft 15 which has a beveled gear 16 rigidly mounted at the forward end thereof. A drive shaft 17 is provided with a pinion 18 which is in mesh with the beveled gear 16.

Carrying bars 19 are disposed beneath the wire container 5 and are adapted to move longitudinally. The carrying bars 19 55 are provided with fingers 20 which are adapted to engage with the wires and move the wires forwardly as they are dropped upon the carrying bars 19.

From the foregoing description of the 60 various parts of the device, the operation thereof may be readily understood. The wires 6 are first fed into the wire container 5 and the drive shaft 17 set in motion. As the disc 7 is operatively connected to the 65 drive shaft 17, the disc will be rotated in the direction of the arrow 21. The wires 6 drop into the recesses 8 as the disc 7 is rotated, and are held in the recesses by means of a guard 22 until they have reached a 70 point substantially adjacent the fingers 20 upon the carrying bars 19. At this point, they are dropped upon the carrying bars one at a time and moved forwardly in the direction of the arrow 23. The carrying 75 bars 19 and the disc 7 cooperate in that the carrying bars are in their rearmost position when a wire is dropped thereupon, and the carrying bars move forwardly and return to the rearmost position in time to 80 receive the next wire which is to be dropped thereupon.

I claim:

1. A device of the type described comprising means for holding a plurality of 85 wires, movable bars, fingers disposed upon said bars, means for grasping the wires, and means for holding said wires in engagement with said wire-grasping means, said holding means permitting only one wire to 90 be released at a time, said bars cooperating with said wire-grasping means and said wire-holding means, whereby one wire may be dropped upon said movable bars, and said bars moved forwardly and rearwardly 95 before the next wire is dropped thereupon.

2. A device of the type described comprising means for holding a plurality of 100 wires, a disc having equally spaced apart recesses in the peripheral edge thereof disposed adjacent said wire-holding means, means for rotating said disc, each of said recesses being adapted to receive one of the wires when positioned adjacent said

wire-holding means, movable bars, fingers carried by said movable bars, said movable bars being adapted to move forwardly and rearwardly during the movement of said disc from the positioning of one recess adjacent said wire-holding means to the positioning of the next recess adjacent said wire-  
5 holding means, and means for holding said wires in said recesses whereby the wires will be dropped singly upon said bars in front of said fingers after said bars have  
10 been returned to their rearmost position.

RAYMOND KNABLE.