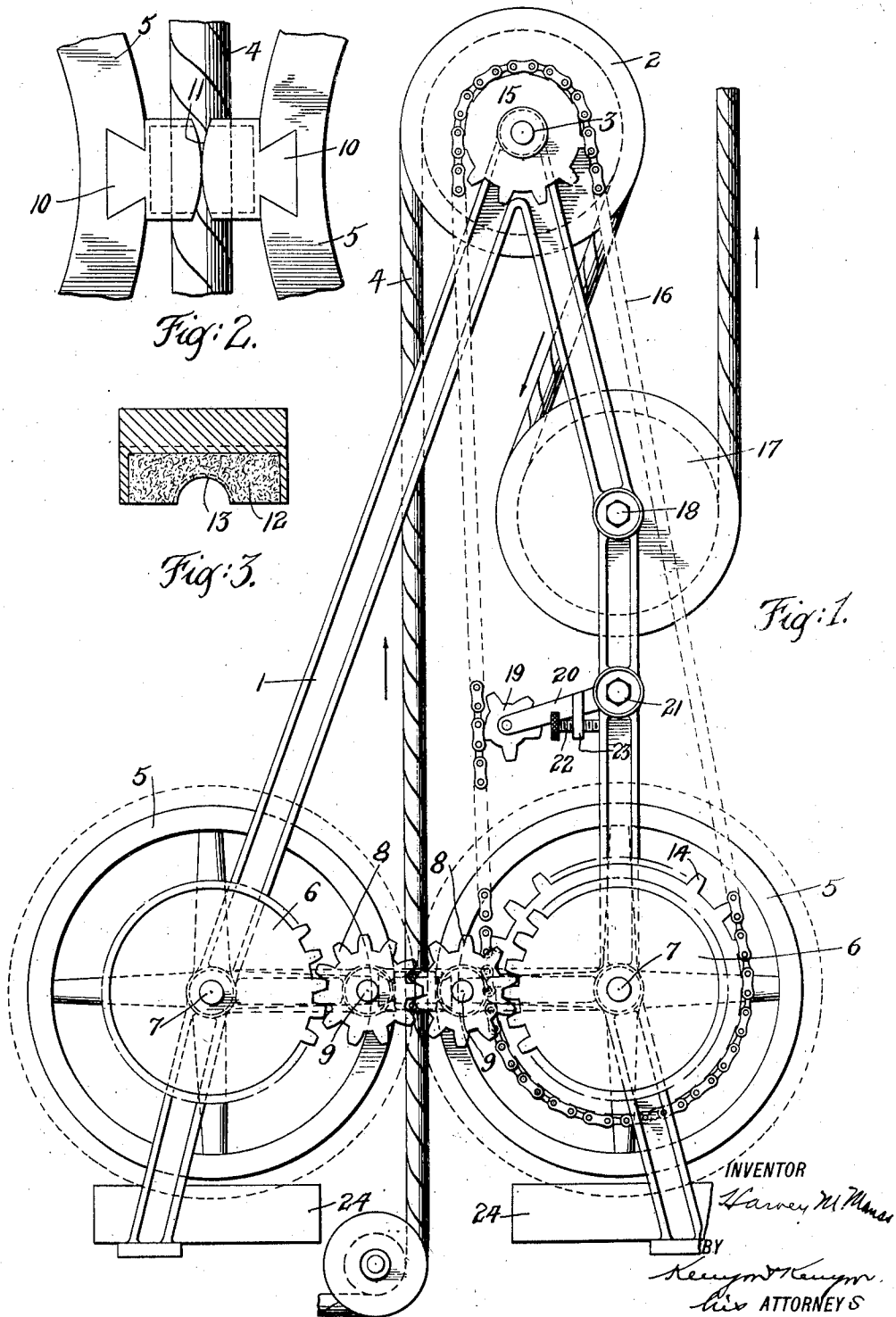


H. M. MANSS.
MARKING DEVICE.
APPLICATION FILED SEPT. 11, 1917.

1,369,450.

Patented Feb. 22, 1921.



INVENTOR

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To all whom it may concern:

Be it known that I, HARVEY M. MANSS, a citizen of the United States, and resident of Cincinnati, county of Hamilton, State of Ohio, have invented new and useful Improvements in Marking Devices, of which the following is a specification.

My invention relates to devices for marking articles, and particularly to that type of devices designed for marking articles comprising an elongated strip, strand or filament. There are several reasons for marking an elongated strip, strand or filament, such as a rope, at certain intervals; for example, marking for decorative purposes, marking to separate different lengths of the strip, strand or filament, or marking for purposes of identification, in which latter case a trade-mark is used.

It is an object of my invention to provide means for marking a strip, strand or filament at certain intervals, and a further and specific object of my invention is to provide means for moving such a strip, strand or filament, for example, moving it longitudinally, and associating with this means a separate means, preferably synchronized therewith, for placing a mark on the strip, strand or filament during its motion. Other and further objects and advantages of my invention will appear from the following description, taken in connection with the drawings forming part of this specification, and pointed out in the hereunto appended claims.

In the drawings, in which like characters indicate similar parts, Figure 1 is an elevation of a marking device embodying my invention. Fig. 2 is a detail of the markers, and Fig. 3 is a horizontal sectional view of one of the markers. It is to be understood that while I describe one embodiment of my invention specifically for the purpose of interpreting my invention, I intend that I shall not be limited to the single embodiment described, but that my invention shall include such modifications, variations and adaptations as occur to those skilled in the art and which come within the scope of my claims.

A frame member 1 carries a moving wheel 2 mounted in bearings 3, and a strip, strand or filament 4 extends over the wheel 2 and is driven thereby. The strand 4 comes from the machine which forms it and passes between the wheels 5. These wheels 5 are mounted in bearings 7 in the frame 1, and

have attached to them gears 6. These gears 6 mesh with gears 8, which are mounted in bearings 9 in frame 1. The gears 8 mesh with one another. Gears 6 and 8 are of such size that wheels 5 move at the same speed. It is not necessary that the wheels 5 be complete wheels, but a rotating arm might be arranged to perform the same functions as are performed by the wheels 5. These wheels 5 have markers 10 mounted in their peripheries, for example, by being dovetailed therein, as shown in Fig. 2. The edges of these markers are curved as at 11 so that they fit closely together as the wheels 5 rotate, since the markers are mounted in the respective wheels 5 so that they come together once during each revolution of the wheels 5. The markers are hollowed out as shown in Fig. 3, and within the recess so formed there may be positioned a pad 12 or any other means for carrying color to the strand to be marked. The upper and lower edges of each marker are formed with a notch 13, which has the same contour as the periphery of the strand to be marked, so that the strand is held tightly between the markers as they come together. One of the wheels 5 is provided with a sprocket 14, and the wheel 2 is provided with a sprocket 15, the two sprockets being connected by a chain 16. The sprockets are proportioned so that the rope is drawn between the two wheels 5 at the proper speed, which speed is preferably the speed at which the markers move with the periphery of the wheels 5. The frame which, as illustrated, is substantially A-shaped, carries a guide wheel 17, journaled at 18, for carrying the strand as it passes from the wheel 2. A small sprocket wheel 19 is mounted upon the arm 20, which is pivoted at 21 in the frame. The arm 20 is swung by turning the screw 22 which contacts with one leg of the frame and passes through a part 23 attached to the arm 20 for the purpose of tightening the chain. The color-carrying material 12 may either be such that it will continue to impress the desired mark upon the strand, or it may be made of felt, or rubber, or even of metal, which will carry a color from the color boxes 24 situated below the wheels 5, and into which the markers dip as they rotate.

It will be evident from the foregoing description that my device is capable of impressing some desired mark upon a strand

of any desired shape as it continues to move, and that while I have shown a single pair of cooperating markers, one marker might be used in cooperation with a dummy marker 5 which would provide a backing for the strand as it was being marked by the active marker. It is also apparent that the number of markers may be varied, and that they may be arranged to put marks first on one 10 side of a strand, and then upon another, without making a mark that extends all the way around or across the strand.

What I claim as new and desire to secure by Letters Patent, is:

15 1. A marking device comprising an A frame, a wheel for guiding an elongated strand, wheels mounted on said frame near the base thereof for marking said strand, means on the periphery of said marking 20 wheels and in line with said guide wheel for marking said strand, means also in line with said marking devices and said guide wheel

for further guiding said strand, said last means being at the apex of said frame, means connecting said marking wheels together 25 and to the guide at the apex of the frame for rotating them together, the rotation being imparted by said strand and means for supplying said markers with color.

2. A marking device comprising an A 30 frame, two marking wheels mounted on said frame and connected together, means on the periphery of said wheels for simultaneously engaging and marking a rope, a guide near the base and a guide at the apex of said 35 frame for guiding a rope between said marking wheels, means connecting one of said guides with one of said marking wheels, a third guide below the apex of said frame and means for applying color to said mark- 40 ing means.

In testimony whereof, I have signed my name to this specification.

HARVEY M. MANSS. [L. S.]