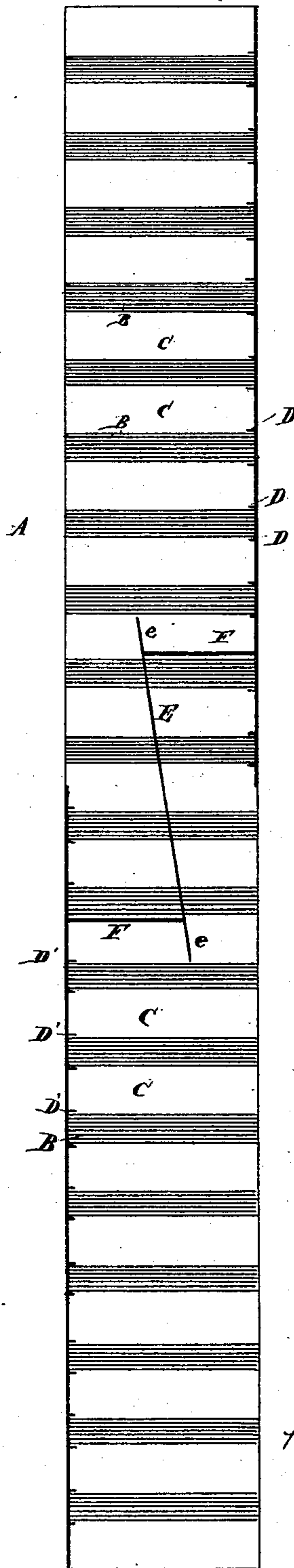


(No Model.)

J. H. OSBORNE.
STRIPED KNIT HOSE TUBE.

No. 260,891.

Patented July 11, 1882.



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UNITED STATES PATENT OFFICE.

JOHN H. OSBORNE, OF PHILADELPHIA, PENNSYLVANIA.

STRIPED KNIT HOSE-TUBE.

SPECIFICATION forming part of Letters Patent No. 260,891, dated July 11, 1882.

Application filed April 11, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. OSBORNE, of the city and county of Philadelphia, and State of Pennsylvania, have invented an Improvement in Striped Knit Hose-Tubes, of which the following is a specification.

My invention has reference to cut knit hose, but more particularly to the manufacture of the striped knit tube from which they are cut. My invention consists in knitting striped tubes for hose manufacture with the defective spots, due to the changing of the color of the yarn, on alternate and diametrically-opposite sides thereof, said spots being continued on each side distances equal to the length of the hose to be cut from said knit tube. Heretofore the defective spots were knit all the way down one side, or were scattered around the tube. In the former case, when the tubes were cut without waste, every alternate hose had the defective spots down the front of same, rendering them unsightly and unmarketable, and in the latter case they appeared as defects all over the hose, and were noticeable in front and sides; and as the scattering is accomplished by chance, owing to the machine being stopped by hand, several spots might appear close together and in front.

The object of my invention is to so construct the knit tube that when the hose is cut therefrom without waste the defective spots will appear in a straight line down the back of same, and will in no wise be seen from front or sides.

In the drawing is shown a length of my improved tubing for cut hose, showing the same as laid flat, and from which a pair of hose may be cut.

In knitting my improved tubing the machine (which forms subject-matter of another application filed of even date herewith) is operated in such a manner that a thread of one color is broken and immediately after the knitting is continued with another colored yarn, thereby forming the stripe, of which there may be any number and of various colors, if desired. At the beginning and ending of every stripe there is a defective spot, D, owing to two colors of yarn being knit in for a short distance, it being necessary to continue knitting with one colored yarn until the other color has been caught and secured through the agency of the

needles. The machine is so adjusted that all of these defective spots D at the beginning and ending of every stripe B and C of the tube A shall be on one side of said tube for a length equal to the length of the hose to be cut therefrom, and then shall be on the side diametrically opposite for another length of hose, and so on, the line of spots D appearing for given lengths on alternately-opposite sides. The tube A, being then laid flat, is cut as shown by lines E F F e e, the lines F corresponding to the heel and toe, the lines E to the foot, and the lines e to the part between the heel and foot. From this it will be seen that when the hose are cut the defective spots will appear down the back in a straight line, and all hose cut from these tubes will be alike.

It is not necessary to cut the heel and foot as shown, as it might be cut with curved knives to give more shape to the hose; but in any case the total length of the tube from which to make any given number of cut hose is not increased, and consequently no waste is the result.

The stripes may be of any width, color, or character; but in all cases there will be a beginning and ending of every color, and consequent defective spots.

The defective spots D may continue down one side of tube A until about half-way down on the toe and foot piece, and then shift over to the other side and continue down the lower half of the other toe and foot piece, as shown at D'; or after reaching toe-line F they may shift over to foot-line E, and, after continuing to the other toe-line F, shift over to the other side of the tube A. In either case the defective spots may be considered as extending down one side of said tube A for lengths equal to the length of the hose. When the length of the tube A is sufficient for more than a pair of hose the defective spots may be continued for lengths equal to substantially double that specified above, as in dividing the tube it would be cut in lengths sufficient for a pair of hose, as shown in the drawing, before being cut into hose.

In making hose from my improved tube, if the same should be cut to conform to the shape of the leg and sewed up part or all of the back, the defective spots will be cut out, as they are in line.

Having now described my invention, what I claim as new, and desire to secure by Letters Patent, is—

5 1. Striped knit hose-tubes from which to cut hose, having the defective spots due to the changing of color of the stripes arranged in longitudinal lines on alternate and diametri-
cally-opposite sides, for the purpose of bring-
10 ing said spots on the back of the hose when cut and preventing waste in cutting the hose from the said tube.

2. A striped knit tube from which to cut hose, which consists of a series of rings of various

colors all knit into a continuous tube, and hav-
ing the defective spots due to the changing of 15
color of said rings arranged in longitudinal
lines on alternate and diametrically-opposite
sides, and for distances equal to substantially
double the length of the hose to be cut from
said tube, substantially as set forth. 20

In testimony of which invention I hereunto
set my hand.

JOHN H. OSBORNE.

Witnesses:

R. M. HUNTER,
ERNEST H. HUNTER.