I. W. GILES.
COATING EYELETS.
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WITNESSES:
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ISAAC W. GILES, OF NEW BEDFORD, MASSACHUSETTS, ASSIGNOR TO
ATLAS TACK COMPANY, OF FAIRHAVEN, MASSACHUSETTS, A COR-
PORATION OF MASSACHUSETTS.

COATING EYELETS.


To all whom it may concern:

Be it known that I, ISAAC W. GILES, a citizen of the United States, and a resident of New
Bedford, in the county of Bristol and State of
Massachusetts, have made certain new and useful Improvements in Coating Eyelets, of
which the following is a specification.

Eyelets, especially such as are applied to shoes and garments, are coated with Japan or
other kind of varnish or paint. In applying the coat, which is commonly done by means of
rolling rolls, the funnel-shaped throats or passages of the eyelets are apt to become
filled more or less, and thus obstructed by an accumulation of the coating material therein.

I have found that this may be removed from the eyelets and more evenly distributed on
the enlarged ends or heads of the same by means of an air blast or current directed
through the eyelets.

In the accompanying drawings I illustrate the method and apparatus by which my in-
vention is carried out.

Figure 1 is a perspective view including the main portions of the apparatus, and Fig. 2 is
a detail section illustrating the attachment of the eyelets to a holder or paper-board.

The eyelets are attached to a paper-board by inserting them in holes therein—that is
to say, the eyelets, which are tapered in the usual way, are forced into holes in the board,
which are made of slightly less diameter than the greatest diameter of the body of the eye-
lets. The eyelets are thus held by friction while the coat is applied thereto. The paper
boards or strips, holding a series of eyelets, as shown, are successively carried forward
between rolls 5 and 6, the latter being provided with circumferential grooves corre-
sponding in number and location to the longitudinal rows of the eyelets in the board 1.

Thus the upper ends of the eyelets do not come in contact with the roll 6, while their
lower ends or heads pass in contact with the roll 5. The latter takes up varnish or other
fluent coating material from the transfer-roll 4, which in turn receives it from the take-up
roll 3, that rotates in a vat 2, containing a suitable quantity of the coating material. Thus the heads of the eyelets are coated, and in this operation their throats or passages are obstructed more or less by a surplus quantity of the coating material. This is removed or distributed by means of the apparatus composed of an air-chamber 7, a pipe 8, and a blower or exhaust-fan 9. The chamber 7 is made of the same or a greater width than the eyelet-carrying board or strip 1 and is also provided with a mouth or opening 7, the same being located on the upper side of the chamber and extending nearly the width of the strip 1.

It is apparent that if a suction be created by the fan 9 air will be drawn down through
the eyelets and into the chamber 7, as indicated by arrows, and, on the other hand, if
the air-current be forced upward through the chamber 7 a series of blasts or currents will
be directed upward through the eyelets, with the same effect as in the other case. Thus while either suction or a forced blast may be em-
ployed I prefer the former as being more effective and as securing a better distribution of the Japan varnish or other material with
which the eyelets may be coated.

A particular advantage of my method and apparatus is that a much thicker coat may be
applied to the eyelets at one operation than has been heretofore practicable, and the coat
is also applied in sufficient quantity to extend to the outer or peripheral edge of the bend
or flange of the eyelets.

It is apparent that the mouth 7 of the air-chamber must be placed as close as practicable
to the board 1, and it should also be arranged quite near the rolls 5 and 6—in fact, as near as
possible.

What I claim is—

1. In coating eyelets, the improved method of removing and distributing the surplus var-
nish or other fluent coating material which accumulates in the throats thereof, by produc-
ing a suction below the eyelets, whereby a series of induced downward currents of air
are produced, as described.

2. The combination, with means for apply-
ing a coating material and a strip carrying eyelets in the manner described, of an air-blast attachment comprising an air-chamber having a mouth over which the eyelets are passed, and means for producing a blast, substantially as described.

3. The combination, with an eyelet-carrying strip and rolls for applying a coating material to the eyelets, of an air-suction chamber arranged contiguous to the rolls and having an open mouth on the upper side, and an exhaust-fan connected with said chamber, whereby downward currents of air through the eyelets may be produced as described.

ISAAC W. GILES.

Witnesses:
CHARLES W. TOBEY,
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