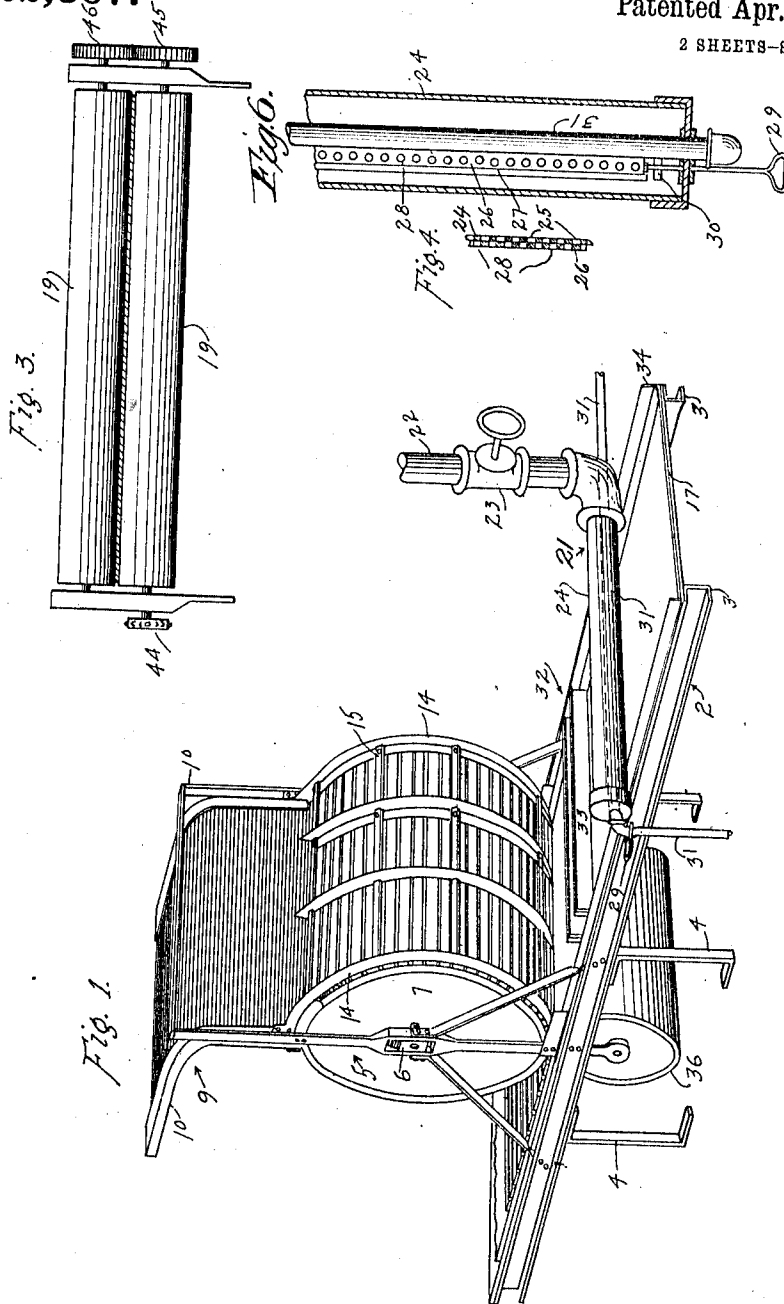


W. M. JANPOLE.
 APPARATUS FOR CONSTRUCTING COVERINGS.
 APPLICATION FILED SEPT. 2, 1911.

1,022,367.

Patented Apr. 2, 1912.

2 SHEETS-SHEET 1.



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INVENTOR:

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BY

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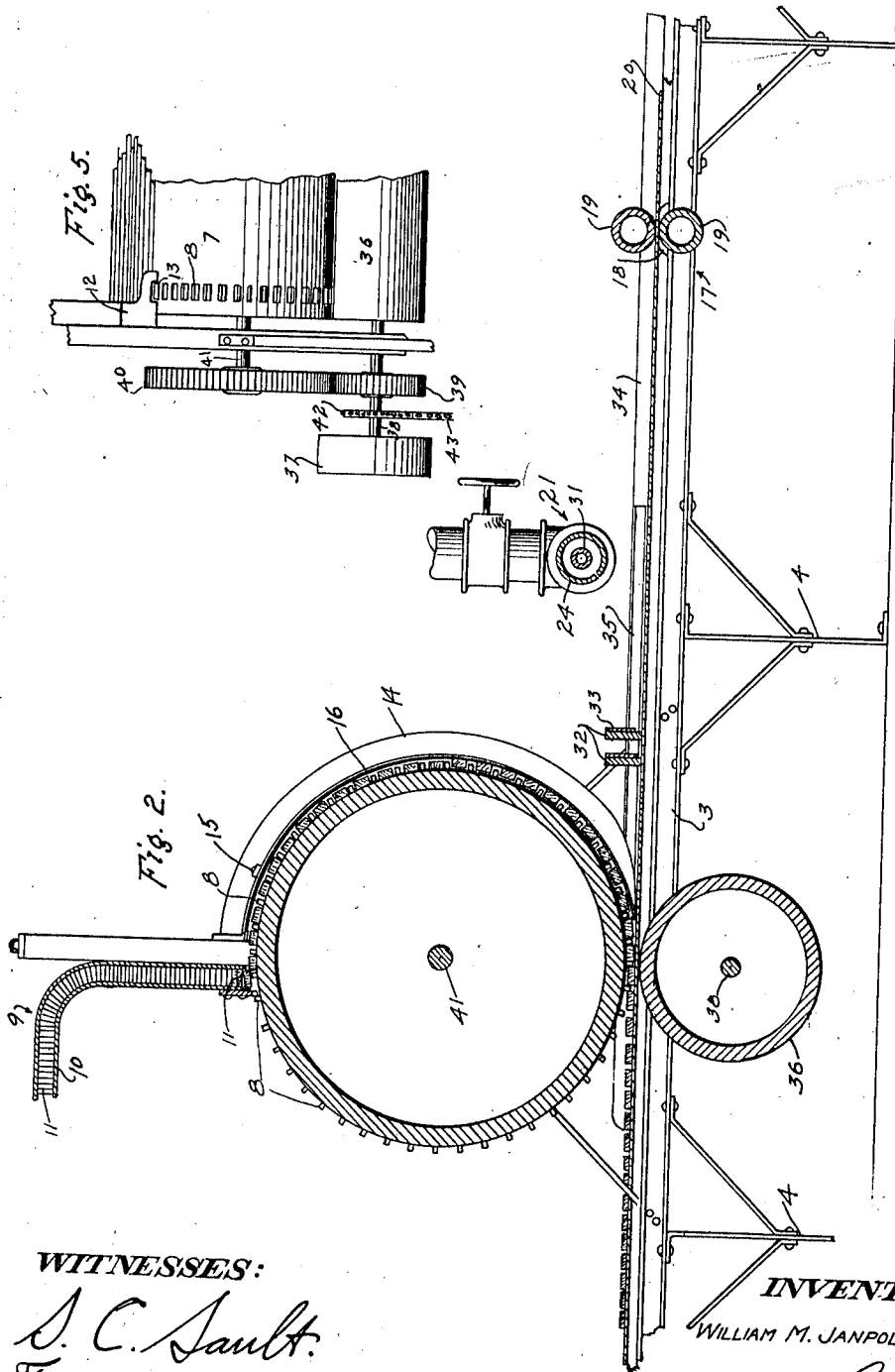
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UNITED STATES PATENT OFFICE.

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APPARATUS FOR CONSTRUCTING COVERINGS.

1,022,367.

Specification of Letters Patent.

Patented Apr. 2, 1912.

Application filed September 2, 1911. Serial No. 647,422.

To all whom it may concern:

Be it known that I, WILLIAM M. JANPOLE, a citizen of the United States of America, residing at Los Angeles, in the county of Los Angeles, State of California, have invented a certain new and useful Apparatus for Constructing Coverings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to apparatus for constructing coverings, more particularly a covering suitable for use in buildings or for forming packing cases; and it may be said to consist in the provision of the novel features, and in the novel and improved construction, arrangement and combination of parts as will be apparent from the description and claims hereinafter.

Objects of the invention are to provide novel and improved apparatus of the character specified which is simple in construction, cheap to manufacture, effective in operation, and easy to manipulate.

Other objects and the advantages of the invention will be apparent to those skilled in the art from a consideration of the following description of one form of construction in which the invention may be embodied, taken in connection with the accompanying drawings in which,

Figure 1 is a perspective view of apparatus having the invention embodied therein; Fig. 2 is a longitudinal sectional view of the apparatus shown in Fig. 1; Fig. 3 is an elevation of a set of rollers for feeding the paper board; Figs. 4 and 6 show sectional fragmentary details of the distributing device, and Fig. 5 is a rear end elevation of the apparatus taken at the left in Fig. 2 and showing the driving apparatus.

Referring to the drawings, the frame 2 of the apparatus may consist of side pieces 3 preferably of channel iron mounted on suitable supports 4 and having affixed thereon a suitable bearing frame 5. In suitable spring pressed bearings 6 mounted on the frame 5, is journaled a cylindrical barrel 7 provided with spaced teeth 8 disposed near its ends on the periphery thereof. A chute 9 preferably consisting of channels 10, spaced apart to receive a plurality of laths 11 therebetween and to accommodate the

end portions of the laths therein, is arranged above the barrel 7 to have the lower end of the channels disposed adjacent to the periphery of the barrel 7 preferably in a vertical plane slightly to the rear of a vertical plane through the center of the barrel 7. At the rear on the channels 10 is provided a plate 12 having the lower end portion thereof in close proximity to the periphery of the barrel and having a cutaway portion 13 to provide a passageway for the teeth 8. The front end of the lower end of the channels 10 extends to about one-half the thickness of the lath 11 above the end of teeth 8 and is adapted to hold the lowermost lath in the chute 9 from forward movement while one of the teeth 8 is passing under said lath. Arc-shaped guides 14 secured to the frame 5 and connected together by cross pieces 15, are arranged to have the inner face 16 thereof spaced from the periphery of the barrel 7 at a sufficient distance to serve for holding said lath in position between the teeth 8 on the barrel as the barrel rotates to move the lath to the delivery point for the lath; said delivery point being substantially below the center of the barrel. Between the channel irons 3 of the frame 2 is arranged a platform or table 17 which has a cutaway portion 18 in which may be arranged spring-pressed rollers 19 for moving paper board 20 or other suitable material rearwardly on said platform or table. Intermediate of the feed rollers 19 and the barrel 7 is arranged a suitable device 21 for distributing on the top surface of the paper board asphalt mastic or other suitable composition having asphalt as the base. As shown the distributing device 21 may consist of a supply pipe 22 having a valve 23 therein and connected with any suitable tank or the like (not shown) for heating the asphalt mastic. A pipe 24 is connected with the supply pipe 22 and is arranged adjacent to and preferably in parallel with the platform or table 17 and provided with a plurality of openings 25 therein. A plate 26 provided with openings 28 therein may be arranged in a guideway 27 on the interior of the pipe 24, and it may have at one end thereof a handle 29 for moving said plate against the stop 30 to have the openings 28 in registry with the openings 25 to permit the asphalt mastic to flow from the pipe 24 to the top surface of the paper

board 20. A pipe 31 may pass through the pipe 24 for re-heating the asphalt mastic in the pipe 24 by passing steam or other heating medium through said pipe 31.

5 Intermediate of the distributing device 21 and the barrel 7 may be arranged suitable means 32 for leveling to a uniform thickness the asphalt mastic applied to the surface of the paper board, said means in
10 this instance consisting of upright plates 33 arranged between the vertical sides 34 extending upwardly from the platform or table 17, the front plate 33 having the lower edge thereof at a slighter greater distance
15 from the top surface of the paper board than that of the rear plate. The sides 34 of the platform or table 17 are adapted to contact with the side edges of the paper board to guide it in its movement on the
20 platform or table and suitable guides 35 may be provided to hold said paper board down into close contact with the platform or table. Below the barrel 7 is arranged another barrel 36 mounted in bearings on
25 the frame 5 and adapted in conjunction with the barrel 7 to cause the lath 11 to be pressed into and partially embedded in the asphalt mastic distributed on the paper board as the laths arrive at the point where they are delivered at regular intervals to the paper
30 board by the barrel 7.

Any suitable means may be employed to drive the apparatus, that shown in Fig. 5 consisting of a pulley 37 mounted on the
35 shaft 38 of the barrel 36, a pinion 39 on the shaft 38 adapted to mesh with the spur wheel 40 on the shaft 41 of the barrel 7, a sprocket wheel 42 on the shaft 38 which may be connected by sprocket chain 43 with
40 the sprocket wheel 44 affixed to the shaft of one of the rollers 19 which has mounted on the other end of said shaft a wheel 45 in mesh with a wheel 46 on the shaft of the other roller.

45 From the foregoing description the mode of operation of the apparatus will be readily understood by those skilled in the art, it being seen that the laths 11 drop successively into the spaces between adjacent teeth on
50 the barrel 7 and are moved to a point below the barrel 7 where they are delivered by the barrel 7 and pressed into and partially embedded in the asphalt mastic on the paper board which latter is continuously moving
55 rearwardly on the platform or table 17. It is to be noted that the lowermost lath in the chute 9 rides on the teeth 8 when the latter pass thereunder and when the teeth reach the forward end portion of said lath, the
60 rear end portion of the lath drops down to be engaged by the next teeth to the rear so that the lath falls readily into place in the space between the teeth and does not foul with the chute or with the lath next above
65 it in the chute.

While one form of construction in which the invention may be embodied has been particularly illustrated and described, there are many changes and modifications thereof that will readily occur to those skilled in the art wherefore the right is reserved to all such changes and modifications as do not depart from the spirit and scope of the invention as defined in the appended claims.

I claim:—

1. In apparatus of the class specified, the combination of a cylindrical barrel, a chute consisting of channels spaced apart to receive a plurality of laths therebetween and to accommodate the end portions of the laths therein, the lower end of said channels being disposed adjacent to the periphery of said barrel in a vertical plane slightly to the rear of a vertical plane through the center of said barrel, a table, means for moving paper board upon the table, means for distributing asphalt mastic onto the upper surface of said paper board, means including teeth on said barrel and arc shaped guides spaced therefrom for delivering at regular intervals laths from said chute to said paper board, and means for pressing and partially embedding the laths in the asphalt mastic on said paper board.

2. In apparatus of the class specified, the combination of a cylindrical barrel provided with spaced teeth thereon, a chute consisting of channels spaced apart to receive a plurality of laths therebetween and to accommodate the end portions of the laths therein, the lower end of said channels being disposed adjacent to the periphery of said barrel, said channels each having on the rear thereof a plate having the lower end portion thereof in close proximity to the periphery of the barrel and having a cutaway portion to provide a passageway for said teeth; the front end of said channels extending to about one-half the thickness of one of said laths above the end of said teeth and adapted to hold the lowermost lath in said chute from forward movement while one of said teeth is passing under said lath, a table, means for moving paper board upon the table, means for distributing asphalt mastic onto the upper surface of said paper board, and means for pressing and partially embedding the laths in the asphalt mastic on said paper board.

3. In apparatus of the class specified, the combination of a cylindrical barrel provided with spaced teeth disposed near its ends on the periphery thereof, a chute consisting of channels spaced apart to receive a plurality of laths therebetween and to accommodate the end portions of the laths therein, the lower end of said channels being disposed adjacent to the periphery of said barrel, said channels each having on the rear thereof a plate having the lower end portion thereof

in close proximity to the periphery of the barrel and having a cutaway portion to provide a passageway for said teeth; the front end of said channels extending to about one-half the thickness of one of said laths above the end of said teeth and adapted to hold the lowermost lath in said chute from forward movement while one of the teeth is passing under said lath, a table, means for moving paper board upon the table, means for distributing asphalt mastic onto the upper surface of said paper board, means for leveling to a uniform thickness the asphalt mastic on said paper board, and means for pressing and partially embedding the lath in the asphalt mastic on said paper board.

4. In apparatus of the class specified, the combination of a table, means for moving paper board upon the table, means for distributing asphalt mastic onto the upper surface of said paper board, a cylindrical barrel provided with spaced teeth disposed near its ends on the periphery thereof, a chute consisting of channels spaced apart to receive a plurality of laths therebetween and to accommodate the end portions of the laths therein, the lower end of said channels being disposed adjacent to the periphery of said barrel in a vertical plane slightly to the rear of a vertical plane through the center of said barrel, said channels each provided on the rear thereof with a plate having the lower end portion thereof in close proximity to the periphery of the barrel, and having a cutaway portion to provide a passageway for said teeth, the front end of the lower end of said channels extending to about one-half the thickness of one of said laths above the end of said teeth, and adapted to hold the lowermost lath in said chute from forward movement while said teeth are passing under said lath, and means for

pressing and partially embedding said laths in the asphalt mastic on said paper board. 45

5. In apparatus of the class specified, the combination of a table, means for moving paper board upon the table, means for distributing asphalt mastic onto the upper surface of said paper board, means on said table to guide the paper board in its movement, means to hold said paper board in close contact with said table, means for leveling to a uniform thickness the asphalt mastic on said paper board, a chute consisting of channels spaced apart to receive a plurality of laths therebetween and to accommodate the end portions of the laths therein, means for delivering at regular intervals laths from said chute to said paper board, the last means including a cylindrical barrel, provided with spaced teeth disposed near its ends on the periphery thereof and arc shaped guides arranged to have the inner face thereof spaced from the periphery of said barrel at a sufficient distance to serve for holding said laths in position between the teeth on the barrel as the barrel rotates to move the lath to deliver the lath substantially below the center of the barrel, and a second barrel arranged below the first mentioned barrel and adapted in conjunction with the first mentioned barrel to cause the laths to be pressed into and partially embedded in the asphalt mastic on the paper board. 60

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses at Los Angeles, county of Los Angeles, State of California, this 28th day of August A. D. 1911. 65

WILLIAM M. JANPOLE.

Witnesses:

S. C. SAULT,
ALEX. H. LIDDERS.