Mar. 13, 1923. 1,448,203

H. CUMFER ET AL

ROOFING MACHINE

Original Filed May 5, 1913

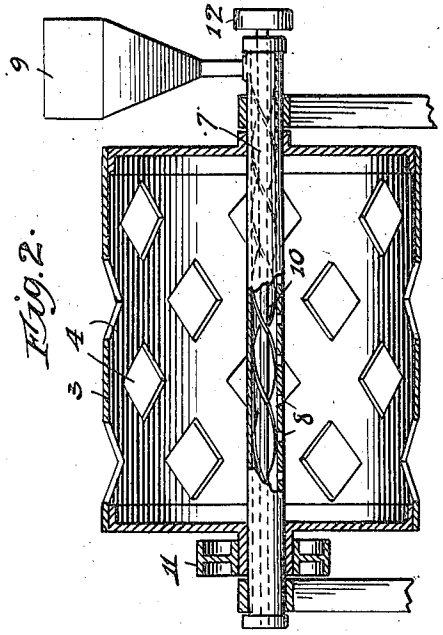


Fig. 2.

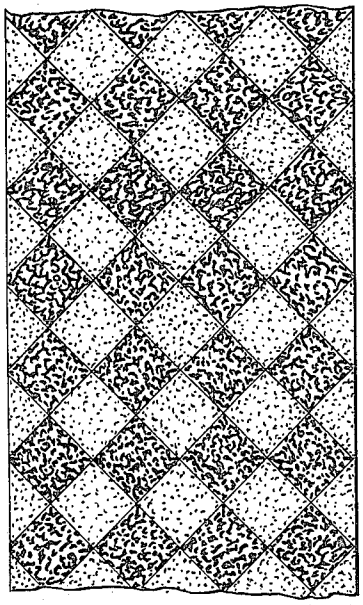


Fig. 3.

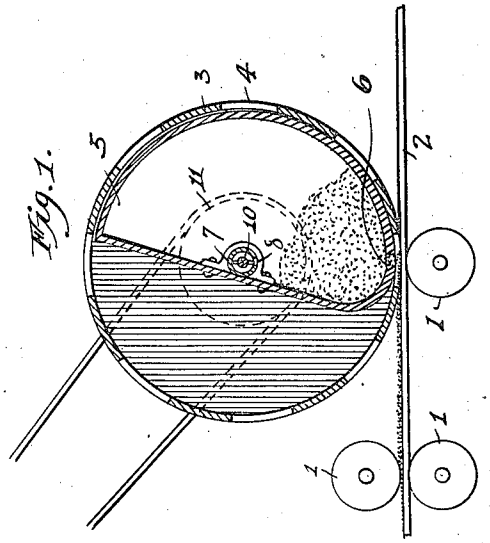


Fig. 1.

Witness,
D. S. Mann

Inventors.
Harry Cumfer + Owen D McFarland
By Frank L. Elkhuap.
Atty.

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UNITED STATES PATENT OFFICE.

HARRY CUMFER, OF CHICAGO, ILLINOIS, AND OWEN D. McFARLAND, OF MISHAWAKA, INDIANA, ASSIGNORS OF ONE-FOURTH TO CARL F. HOFMANN AND ONE-FOURTH TO GEORGE P. HEPPES, BOTH OF CHICAGO, ILLINOIS.

ROOFING MACHINE.

Original application filed May 5, 1913, Serial No. 765,696. Divided and this application filed April 1, 1918. Serial No. 225,963.

To all whom it may concern:

Be it known that we, HARRY CUMFER and OWEN D. McFARLAND, both citizens of the United States, residing at Chicago, in the county of Cook and State of Illinois, and Mishawaka, county of St. Joseph, and State of Indiana, respectively, have invented certain new and useful Improvements in Roofing Machines, of which the following is a specification.

This application is a divisional application of an original application filed May 5, 1913, Serial #765696.

Our invention relates to apparatus for making roofing of that class in which a strip of suitable material is coated with tar, asphaltum or other suitable water proofing material and finely divided or granular slate, soap stone or sand is more or less imbedded in the water proofing material and thereby attached to the exposed side of the finished sheet.

The object of our invention is to provide an improved machine for making roofing of the character described in which the granular material may be laid down in patterns using material of various colors or other physical characteristics; to produce a more ornamental and thus a more desirable roof.

To this end, our invention consists in a novel construction, arrangement and combination of parts herein shown and described and more particularly pointed out in the claim.

In the accompanying drawings:

Fig. 1 is an elevation partly in section of a mechanism adapted for use in the invention.

Fig. 2 is a section taken substantially at right angles to Figure 1.

Fig. 3 is a view showing a section of the finished roofing.

In the construction shown, 1 are rollers or other suitable means arranged for supporting the coated material 2 preferably arranged to receive the material as it comes from the usual coating machines (not shown). The granular material is fed through a drum 3 provided with pattern openings 4 formed in its peripheral wall. The wall of the drum 3 is preferably finished upon the interior. The hopper 5 is positioned within the drum and the portion of the hopper adjacent the openings 6. In its bottom snugly fits against the wall of the drum which thus operates as a valve and prevents the escape of material from the hopper except through the opening 6. Any number of pattern cylinders 3 may be employed to work out the design upon the roofing material by simply positioning the plurality of hoppers above the roofing sheet. The pattern cylinder 3 is preferably supported upon a tubular shaft 7 with suitable openings 8 arranged therein and rigidly supported. The hopper 9 is provided at its extremities to receive the granular material and direct the same into the tubular shaft. A rotatable screw conveyor 10 is positioned within the tubular member 7. The drum 3 is rotated by a belt or chain upon a suitable wheel 11 rigidly attached to the drum, and the material is carried into the cylinder by the screw conveyor which is operated by suitable means cooperating with the pulley 12 rigidly attached to the end thereof and the material escapes through the openings 8 into the hopper 5. After spaced areas of the sheet have been coated through the first mentioned drum the remaining areas can be coated by a second drum exactly like the first except that the perforations or openings will be offset relative to the openings in the first drum or the remaining areas can be covered by feeding the gravel or grit over the entire surface in the manner shown in the original application of which this is a division.

We claim as our invention:

In a device of the class described, spaced standards, a stationary shaft supported at its ends by said standards, a tubular structure stationarily supported by said shaft, a tubular stencil rotatably supported at the periphery of said tubular structure, and means positioned near the end of said structure for imparting movement to said stencil.

HARRY CUMFER.
OWEN D. McFARLAND.