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2,581,848

COATING MACHINE

Filed June 26, 1947

FIG. 3

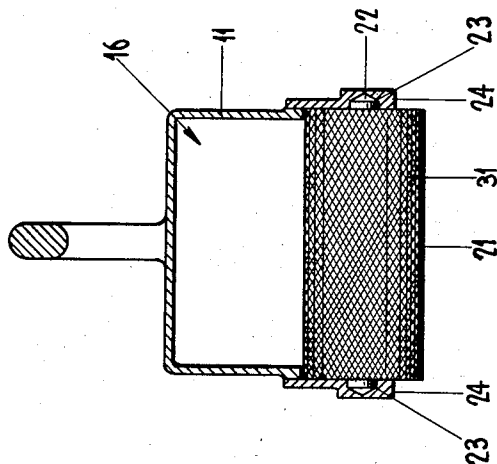


FIG. 2

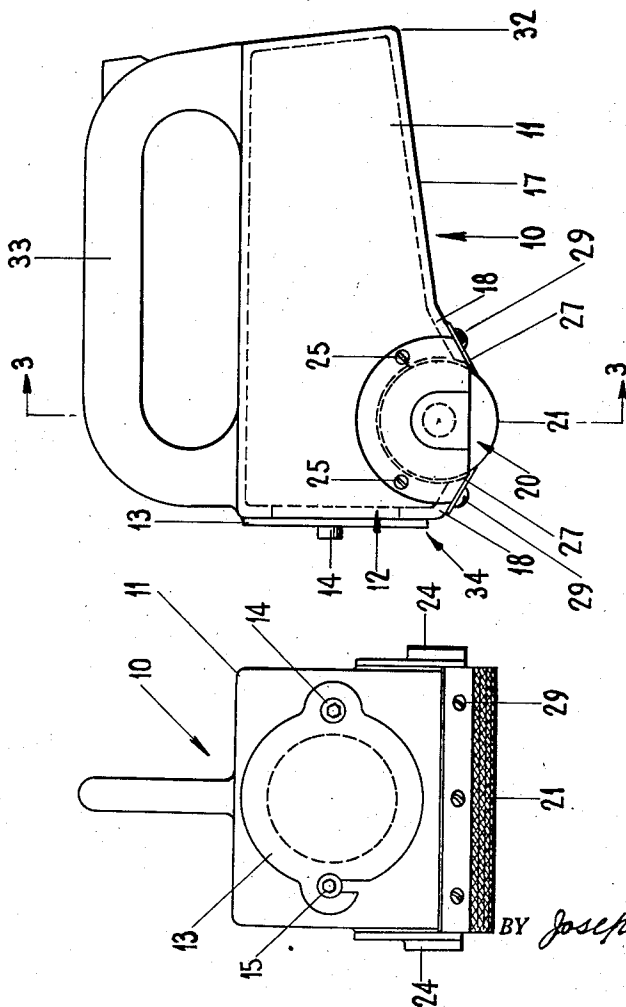


FIG. 1

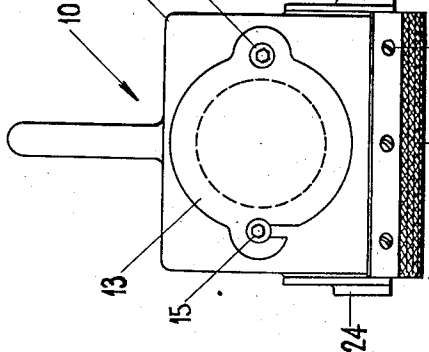
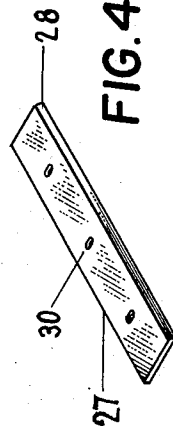


FIG. 4



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COATING MACHINE

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1 Claim. (Cl. 15—132.5)

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This invention relates to an adhesive coating machine for applying an even coating of adhesive to a flat surface.

An object of this invention is to provide a hand-carried machine comprising a hollow housing having a storage chamber for adhesive, and a knurled adhesive distributing roller rotatably mounted in the storage chamber and extending partly through the housing below the lower surfaces of the machine, the lower surfaces on opposite sides of the roller being angularly positioned to rise away from the roller to prevent the lower edges of the housing from contacting the surface being coated.

Another object of this invention is to make the lower wall of the machine to slope upwardly away from the roller to prevent the far edge of the lower wall from contacting the surface to which the adhesive is applied during operation of the machine.

Another object of this invention is to make the knurl elements of the roller of a size to scoop up adhesive in the storage chamber and deliver same in measured quantities on a surface on which the roller is applied.

With the above and other objects in view, the invention will be hereinafter more particularly described, and the combination and arrangement of parts will be shown in the accompanying drawings and pointed out in the claim which forms part of this specification.

Reference will now be had to the drawings, wherein like numerals of reference designate corresponding parts throughout the several views, in which:

Figure 1 is an end view of the adhesive coating machine.

Figure 2 is a side elevation of the machine shown in Figure 1.

Figure 3 is a cross-sectional view, the section being taken as on line 3—3 in Figure 2.

Figure 4 is a perspective view of a scraper plate.

In the illustrated embodiment of the invention, the numeral 10 indicates a machine for applying an even coating of adhesive to a flat surface. The coating machine 10 comprises a hollow body 11 of generally rectangular cross-section.

At one end of the body 11 is an opening 12 which may be closed by a cover 13 pivotally mounted on a screw 14 and which may be suitably locked by a screw 15. The cover 13 provides access to a storage chamber 16.

Extending downwardly from the casing 11 below the lower wall 17 are flat surfaced flanges 18 which are positioned in convergent angular re-

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lation. The flanges are in spaced-apart relation to provide a rectangular opening 20.

Rotatably mounted in the opening 20 is a knurled adhesive distributing roller 21. The roller has pintles 22 suitably mounted in bearings 23 formed in side plates 24. The side plates are secured by screws 25 to the upright side walls of the casing. The side plates closely contact and fully conceal the pintles 22 and seal the end faces of the roller.

Scraper plates 27 each having a bevelled edge 28 are secured to the flanges 18 by screws 29 passing through transversely elongated apertures 30 in the scraper plates. The apertures permit the scraper plates to be slidably adjusted to and from the roller 21 to scrape excess adhesive from the roller and regulate the thickness of adhesive film carried out from the storage chamber 16. As shown in Figures 1 and 3, it will be seen that the roller 21 is of uniform diameter throughout its length and is knurled throughout its length.

It will also be seen that both side plates 24 contact the side edges of both scraper plates 27 and thus maintain the alinement of the scraper plates, while permitting adjustment of the scraper plates to and from the roller 21.

The cavities 31 between the knurl elements of the roller 21 are made of a size to scoop up adhesive in the storage chamber 16 and deliver same in measured quantities on a surface on which the roller is applied.

It is to be noted that the lower wall 17 is made to slope upwardly away from the roller a considerable height to prevent the far edge 32 of the wall 17 from contacting the surface to which the adhesive is applied during operation of the machine.

The upper surface of the body 11 has an elongated linear handle 33 which is positioned in right-angular relation with the front wall 34 of the body. This position of the handle facilitates the maintenance of the edge 32 in spaced relation above the surface worked upon.

In accordance with the patent statutes I have described and illustrated the preferred embodiment of my invention, but it will be understood that various changes and modifications can be made therein without departing from the spirit of the invention as defined by the appended claim.

I claim:

A machine for applying an even and measured coating of adhesive to a flat surface, comprising a hollow body having a closable inlet for storage of adhesive, the lower surface of said body hav-

ing converging flanges forming a rectangular opening, a knurled adhesive distributing roller rotatably mounted in said opening with a minor portion of its periphery projecting below said flanges, side plates arranged to closely contact and seal the end faces of said roller, said roller being knurled throughout its length, two scraper plates slidably secured to said flanges and having bevelled edges positioned to contact opposite sides of the periphery of said roller, said scraper plates being adjustable to and from said roller to scrape excess adhesive and regulate the thickness of adhesive film carried out from said storage body by said roller, the knurl elements of said roller being of a size to scoop up adhesive and deliver same in measured quantities on a surface on which said roller is applied, the upper surface of said body having a linear handle positioned midway lengthwise of said roller, the flanges on opposite sides of said roller being angularly dis-

posed to rise away from said roller to prevent the lower edges of said body from contacting the surface being coated.

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