Nov. 2, 1943. C. P. KENT 2,333,382

FABRIC PRINTING APPARATUS

Filed July 12, 1941

Fig. 1

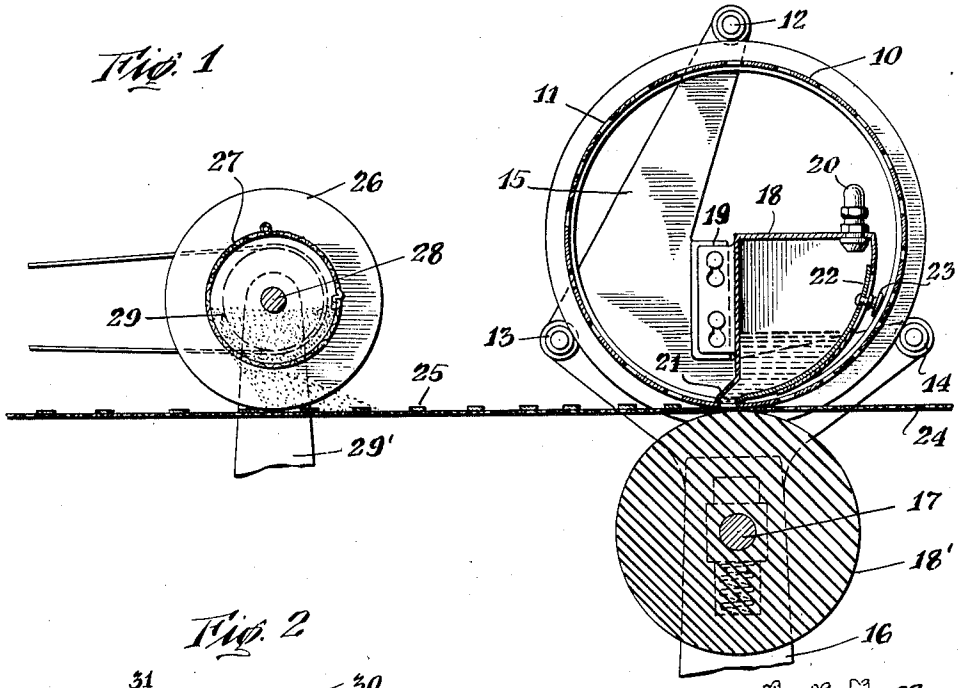
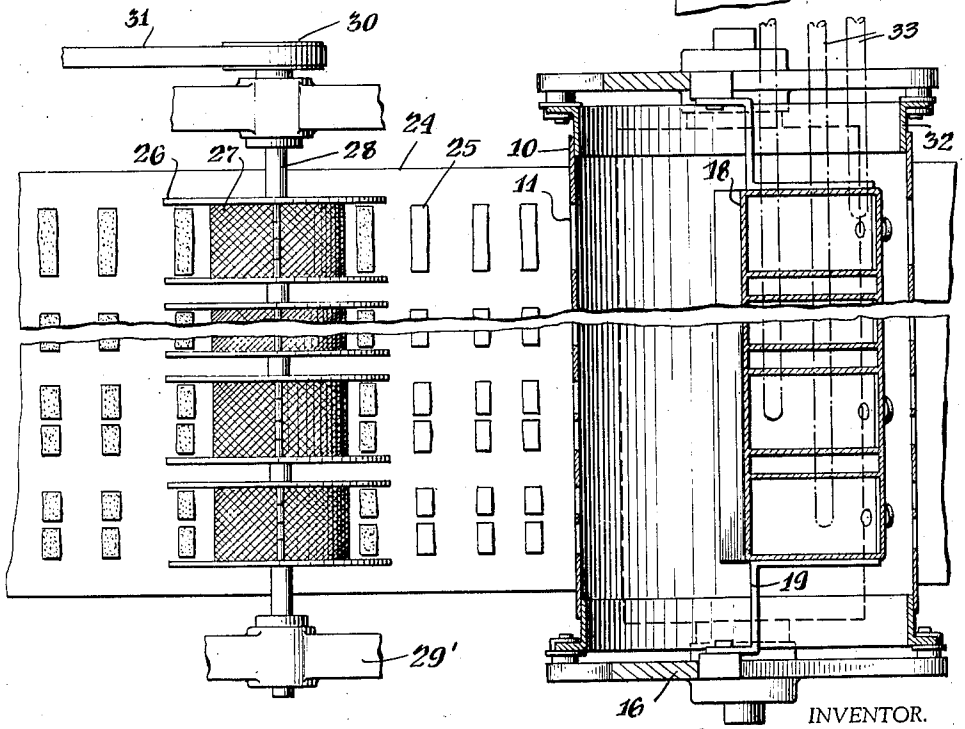


Fig. 2



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FABRIC PRINTING APPARATUS

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1 Claim. (Cl. 101—115)

This invention relates to improvements in fabric printing apparatus, and it is the principal object of my invention to provide such an apparatus in which any suitable kind of paint suitable for the purpose, and flock or lacquer or the like may be used to print on fabrics or textiles simultaneously in a plurality of colors.

Another object of my invention is the provision of a fabric printing apparatus including a rotatable, perforated drum within which a plurality of paint containers are so arranged in juxtaposition that the various paints with which the containers are supplied can be fed thereto and to the fabrics under air pressure, by hand or in any other suitable manner.

Still another object of my invention is the provision of a fabric printing apparatus of this type in which the paint containers have each a lower opening in front of which a doctor blade is arranged for the removal of superfluous ink or paint, whereby a regulator plate is combined with the container for controlling the amount of paint to be dispensed from the container.

A further object of my invention is the provision of a fabric printing device of a comparatively simple and inexpensive construction, yet durable and highly efficient in its operation.

A still further object of my invention is the provision of a fabric printing apparatus in which the individual paint containers are so arranged in their drum that they may readily be exchanged.

These and other objects and advantages of my invention will become more fully known as the description thereof proceeds, and will then be specifically defined in the appended claim.

In the accompanying drawing, forming a material part of this disclosure:

Fig. 1 is a sectional end elevation of an apparatus constructed according to my invention with a strip of fabric fed between drum and feed roller.

Fig. 2 is a plan view thereof.

As illustrated, a stencil drum 10 provided with a plurality of openings 11 in its outer mantle, is rotatably guided between three rollers 12, 13 and 14 at the ends of the branches of a bracket 15 on a machine part 16 carrying a shaft 17 for a friction roller 18'. Within the drum 10 a plurality of paint or paste containers 18 are arranged in juxtaposition and are attached by means of a member 19 to one arm of the bracket 15.

The paint or lacquer is introduced into the container 18 through an opening in its top closed by a suitable plug 20 or the like and the introduction can be made by and, under air pressure or in any suitable convenient manner as for instance through pipes 33, Fig. 2. The paint is dispensed through a bottom opening in the container controlled by a doctor blade 21 for controlling the amount of paint etc. to be dispensed from the container, and the size of the opening is regulated by means of a substantially segmentally shaped plate 22 in the paint container operated by a knob 23 or the like.

The fabric 24 to be provided simultaneously with paint or the like of various colors as indicated at 25 is guided between the friction roller 18' and the drum 10 underneath a smaller drum 26 having in its interior a drum 27 filled with flock, fine silk, woolen or cotton refuse 28 to be dispensed through a suitable screen onto the wet paint on the fabric.

The drums 26 and 27 are arranged on a shaft journaled in suitable bearings of a post 29, and the shaft 28 carries suitable pulleys 30 or the like driven by means of a belt designated 31. In order to allow a ready adjustment of the drum 10 to any number of paint containers 18 suitable corner brackets 32 or sleeves are provided.

The operation and use of my apparatus will be entirely clear from the above description by having simultaneous reference to the drawing, and it will be evident, that I may print with this apparatus simultaneously in colors on any fabric as desired. The individual paint or lacquer containers are filled in any desired manner, by air pressure, by hand or any other suitable way, while the doctor blade will effectively prevent a too thick application of the paint to the fabric which then is further given the appearance of an embroidery by the application of a suitable flock. If it is desired to change the number of paint containers, the containers are removed from the drum and the containers are then adjusted by means of the corner brackets to suit the desired width of the containers, and thus to the number of colors to be printed.

It will be understood that I have described and shown the preferred form of my invention only as one example of the many possible ways to construct the same in practice, and that I may make such changes in the general arrangement of my apparatus and in the construction of its minor details as come within the scope of the appended claim without departing from the spirit of my invention and the principles involved.

Having thus described my invention, what I

claim as new and desire to secure by Letters Patent is:

In a fabric and textile printing apparatus as described, including a perforated, rotatable drum guided between rollers at the ends of the branches of a machine bracket, a plurality of paint or lacquer containers arranged in juxtaposition within said drum and attached to one of said branches, each of said containers having an opening in its top and an opening in its bottom, pipes for introducing paint under pressure through said top opening normally closed by a plug, and a doctor blade obliquely disposed to the bottom opening in each container, and a substantially segmentary shaped movable plate to regulate the size of the bottom opening in each container.

CURT P. KENT.