MACHINE FOR PRODUCING A TWISTED EDGE ALONG THE ONE SIDE OF A LENGTH OF CREPE PAPER
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The present invention relates to improvements in machines by means of which the one side of a length of crepe paper is provided with a twisted edge for use in the production of paper roses and other articles for decoration purposes.

According to the invention the machine is particularly characterized by the combination of a rotatable spindle, and folded around the one end thereof a guide plate, the crepe paper being inserted between the spindle and guide plate and drawn through them by means of a roller device operated to rotate simultaneously with the rotation of the spindle. This construction provides a machine very simple and easy to manipulate, and which besides being most efficient is comparatively easy in manufacture.

One manner of construction is illustrated in the accompanying drawing, where

Fig. 1 shows the machine seen from the rear with the rear cover removed,

Fig. 2 the same seen from the front with the front cover removed,

Fig. 3 the feeding device seen from the one side,

Fig. 4 the same together with the twisting device seen from above, and

Fig. 5 the front pointed end of the spindle.

The machine according to the invention consists of a housing 1 in which three shafts 2, 3 and 4 are journaled. On the rear side of the housing each of these shafts carry a toothed wheel 5, 6 and 7 respectively, and of which the last mentioned is considerably smaller than the others and may accordingly be given a comparatively greater speed of rotation. The shaft 2 carries furthermore a handle bar 8 for operation. The shaft 2 as well as the shaft 4 extend through a partition in the housing 1 to the front side of the machine, where the shaft 2 carries a roll 9 and the shaft 4 a large toothed wheel 10.

This toothed wheel 10 is in engagement with a worm 11 on a spindle 12 and may thus actuate the spindle to rotation. The spindle 12 rotates in suitably arranged journals in the housing, and is at the one end beveled to a point 13, which point may be smooth or prismatic, preferably hexagonal. Around the point 13 there is arranged a guide plate 14, which according to the manner of construction illustrated is obtained by the folding of an extension from a tab 15 attached to the machine and which serves to support the crepe paper being treated. The extension 14 is folded in such a manner around the point 13 that there is formed a slit 16 between the free edge of the extension and the table, and through this slit the crepe paper is fed to the spindle.

The paper feeding device comprises the roll 9 and above this roll another roll 17 mounted rotatably on a pin in the partition. This roll 17, which is preferably made of rubber, presses slightly the roll 9, the surface of which may be suitably corrugated, and is rotated together with this roll during operation and to the effect that the crepe paper inserted between the rolls is drawn through the space between the spindle and the guide plate. In order to prevent the twisted edge of the crepe paper in becoming flattened between the feeding rolls 9 and 17, the latter is provided with a groove 18 around its surface, in which groove the twisted edge travels during the feeding process.

The machine is supplied with suitable means for its attachment to a working table or the like.

The folding of the guide plate 14 around the spindle end follows a screw line in the travelling direction of the paper, and when the edge of the paper is inserted through the slit 16 to the rotatable spindle point 13, it is twisted or rolled while continually being fed by the rollers 9 and 17 through the space between the spindle and the guide plate, and as this space is comparatively narrow, it will in connection with the special properties of the crepe paper effectuate a suitable twisted edge being formed.

I claim:
1. A machine for producing a twisted edge along the one side of a length of crepe paper or the like, the combination of a rotatable spindle, a guide plate arranged around the one end of the spindle, coating rolls or the like for feeding the paper between the spindle and the guide plate, and means for providing simultaneous rotation of the spindle and rolls.

2. In a machine for the purpose described, the combination of a rotatable spindle, the one end of which is pointed, a guide plate arranged around the pointed spindle end, means for feeding the paper between the pointed spindle end and the guide plate, and means for providing simultaneous rotation of the spindle and the feeding rolls.

3. In a machine as claimed in the preceding claim, the pointed end of the rotating spindle being prismatic, preferably hexagonal.

4. In a machine for the purpose described, the combination of a rotatable spindle, a table for supporting the paper to be treated, an extension on the table folded around the end of the spindle, and between the free end of the extension and the table a slit through which the paper may be supplied to the spindle.

5. In a machine for the purpose described, the combination of a rotatable spindle, a guide plate folded around the end of the spindle, two coating rolls for feeding the paper between the spindle and the guide plate, and in one of these rolls a groove through which the twisted paper edge may pass during operation.