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CARD OR PAPER STOCK FOR USE IN
DUPLICATING PROCESSES

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1 Claim. (Cl. 41—31.6)

The principal object of the present invention is to provide brighter, cleaner and clearer cut copies and to reduce fading to a minimum while obtaining an increased number of copies from any gelatin roll, hectograph ink or like duplicating medium.

To this and other ends hereafter set forth, or appearing, the invention, generally stated, comprises card or paper stock for the purpose set forth having all or a portion of its surface rendered hygroscopic in character, for example, by the application of an admixture of glycerine with compatible saline and other ingredients.

The invention also comprises the improvements to be presently described and finally claimed.

There is applied to the portion of the card or paper stock which is to receive hectograph or other ink from a gelatin roll or other like duplicating device, a substance or material adapted to provide a hygroscopic surface. This substance or material is applied to the paper or card stock, for example, by means of a press to the platen of which it is applied and then transferred from the platen by pressure to the face of the stock, or a roller may be used, or the material may be otherwise applied.

Examples of a substance or material adapted to provide a hygroscopic surface when so applied to the stock are as follows:

Example No. 1

2 teaspoonfuls of glycerine,
15 drops of crude oil,
30 drops of sodium silicate,
2½ teaspoonfuls of bicarbonate of sodium,
2 teaspoonfuls of alum, and
Water in sufficient quantity to provide for application of the admixture to the platen of the press by which it is applied to the paper or card stock.

Example No. 2

8 oz. of glue,
15 oz. of bicarbonate of sodium,
1 teaspoonful of silicate of sodium dissolved in 14 teaspoonfuls of water,
10 oz. of alum solution consisting of 6 oz. of alum dissolved in 2 pounds of water, and
30 oz. of starch base.

In each example the proportions are not exact and are subject to change, and the admixtures may be prepared cold, and the invention is not limited to the use of the specific ingredients mentioned, the object being to impart to paper or card stock a hygroscopic surface for the accomplishment of the objects set forth. Otherwise, than as the treated portions of the stock are rendered hygroscopic, the stock is not affected, but in use many more copies can be taken from the same master roll or like device than can be taken upon untreated stock, and the copies are brighter, cleaner and less subject to fading.

The invention is directed to processing the stock in all or any portion thereof to make its surface hygroscopic for the purpose set forth, rather than to the formula used for that purpose. Therefore, the invention comprises placing a suitable processing liquid on any part of the stock, which liquid will not affect the wearing or other qualities of the writing surface for the use of pen, pencil or ink, and will impart hygroscopicity for the purpose set forth.

I claim:

The process which consists in facially impregnating paper stock which is otherwise with a composition adapted to impart hygroscopicity to the faces only and transferring copy from a duplicating medium upon such paper.

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