

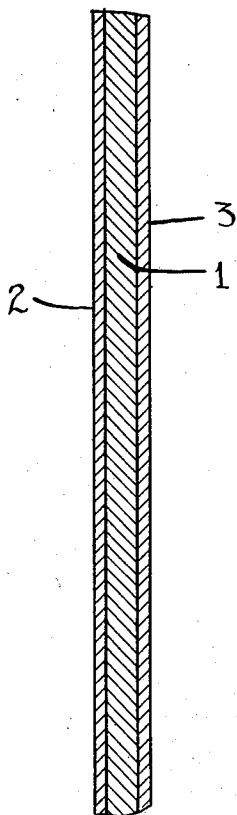
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PROCESS OF MAKING CARBON PAPER

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UNITED STATES PATENT OFFICE.

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PROCESS OF MAKING CARBON PAPER.

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The present invention relates to carbon paper, and an object thereof is to provide a carbon paper which is non-curling. A further object of the invention is to provide an improved process of making carbon paper, whereby the same becomes non-curling in use.

To these and other ends, the invention consists of certain parts and combinations of parts, all of which will be hereinafter described: the novel features being pointed out in the appended claims.

In the drawing:

The figure is an enlarged sectional view of a carbon sheet constructed in accordance with this invention.

The best modern carbon paper is made by applying the color coating to a carrier sheet comprising the best English and German tissue papers. These tissue papers are very thin and are substantially free from holes, so that they are but very slightly saturable. When the color coating is applied to the carrier sheet, it does not penetrate the paper to any great extent due to the fact that the latter is so closely formed. As the color solution is applied to the carrier sheet in a hot condition, the color coating contracts when cooled with the result that the finished carbon sheet has a curled condition, the color coating placing one surface of the carrier sheet under greater contracting stress than the other surface.

According to the present invention, during the coating of the sheet 1 with the color

coating 2 or at least before the cooling or contraction of the color coating, a coating 3 in a hot condition is applied to the opposite face of the sheet. This last mentioned coating may be formed from caseine, wax, a glue substance or similar material and which contracts when cooled an amount substantially equal to that of the color coating upon cooling, so that both sides of the sheets will be subjected substantially to the same contracting stresses, both coatings being cooled immediately and simultaneously

It is apparent that there is produced by this process a non-curling paper with a color coating on one side not penetrating the sheet, and a coating on the opposite side not penetrating the sheet, the two coatings having substantially the same contracting properties when cooled and dried.

What I claim as my invention and desire to secure by Letters Patent is:

The process of making carbon sheets which consists in applying to a tissue of very slightly saturable properties two coatings in a hot condition to the opposite faces of the tissue, one of said coatings containing a coloring material, the other being free from coloring material both of said coatings having the tendency to penetrate the tissue carrier, and immediately and simultaneously cooling both coatings to set the same before either coating has saturated through the tissue carrier so as to produce a non-curling carbon sheet.

GEORGE W. POORMAN.