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NOGLARE WRITING PAPER AND PROCESS OF MAKING SAME.

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This invention relates to improvements in writing papers and in processes of making the same, and its leading object is to provide a writing paper for use in schools, offices and other places, which will have a super calendered finish which will not produce a glaring reflection of light rays.

Ordinary unlined and lined papers for use with writing pens are made with smooth surfaces which produce a distinct glare under artificial or natural light, and this glare soon leads to eye strain, followed by blurred reading, and in many cases low visibility of the writing upon the paper.

A dull finish paper will not produce such a glare, but it is not desired for use with writing pens, owing to the greater resistance offered to the movement of the steel or other pen point, and the consequent nerve strain, resulting in writer's cramp, and even more serious nervous disorders.

After long, elaborate and expensive research work I have discovered that it is possible to produce a super calendered paper for use with writing inks which will not cause a glare under either natural or artificial light.

I have found that by the use of a selected tint or coloring matter, properly incorporated in the pulp or stock from which the paper is composed in the usual process of manufacture, that the paper sheet may be highly calendered to produce what is generally known to the trade as a "super calender" finish; and that the paper thus finished will not produce under any natural or artificial light used in schools, offices or other places, any glaring reflection, and will to all practical purposes be substantially glareless.

In making my improved paper I use a sulphite stock, and, to a lot of 1,000 pounds of sulphite stock (100%) I add 58 ounces of auromine double O. and 33 ounces of soluble blue. This tinted stock is then worked through the paper machine in the usual manner, and the paper web is then subjected to the usual calendering and super calendering process, to produce a high, smooth, finish to receive writing from a pen, by hand effort.

The finished paper has a light greenish tint which has the significant qualities of absorbing the light rays cast upon its surface, rather than reflecting back in the nature of a glare the received light.

The paper thus produced has a finish equal to that of the smoothest writing paper, and yet it can be written upon and the writing matter read in any angular relation to the source of light, without glare.

The paper may be lined or unlined, padded or otherwise. The super calendered surface is not impaired in any way by any secondary surfacing operation, the non-glaring qualities being obtained by the selective tinting of the paper stock.

Specimens of the finished paper are submitted with this application, as permanent exhibits, in place of a drawing, the filing of which is deemed unnecessary.

Having described my invention I claim and desire to secure by Letters Patent:—

1. As an article of manufacture, a calendered sheet of writing paper adapted for use with a pen, comprising a filler material having a coloring material worked therein, comprised of sulphite stock, auromine double O, and soluble blue in the following proportions: sulphite stock, 1,000 lbs; auromine double O, 58 ounces; soluble blue, 33 ounces.

2. The method of making writing paper adapted for use in connection with a pen, which comprises forming a filler material and working through said material a coloring agent comprised of sulphite stock, auromine double O and soluble blue in the following proportions: sulphite stock, 1,000 lbs; auromine double O, 58 ounces; soluble blue, 33 ounces.

3. As an article of manufacture a supercalendered sheet of writing paper adapted for use with a pen comprising sulphite stock, a filler material having coloring matter worked therein which produces a no-glare effect when calendered, the coloring matter consisting of auromine double O and soluble blue.

In testimony whereof I affix my signature.

WELLINGTON GEORGE REYNOLDS.