

UNITED STATES PATENT OFFICE.

WILLIAM TROTTER, JR., OF OYSTER BAY, NEW YORK.

MAKING LUMINOUS PAPER.

SPECIFICATION forming part of Letters Patent No. 277,383, dated May 8, 1883.

Application filed October 31, 1882. (Specimens.)

To all whom it may concern:

Be it known that I, WILLIAM TROTTER, JR., of Oyster Bay, in the county of Queens and State of New York, have invented a new and
5 useful Improvement in Making Luminous Paper, of which the following is a specification.

My invention relates to a novel process of rendering paper luminous, which consists in
10 applying to the paper a compound of china-clay, blanc fixe, or other analogous substance, and luminous or phosphorescent material, preferably sulphide of calcium, and in subsequently distributing the compound by pressure uniformly over the surface of the paper. By em-
15 ploying pressure to distribute the compound containing the luminous material I obtain a very uniform surface, free from streaks, and the luminosity of which is not varied or streaky.

In carrying out my invention I take china-
20 clay, blanc fixe, or other substance suitable for finishing paper, and add thereto a quantity of sulphide of calcium or other luminous material equal to about thirty per centum, (30%,) more or less, of the whole compound. The ingredi-
25 ents are thoroughly commingled by grinding or in any other suitable way, and care should be taken to avoid the presence of any metallic oxides in the compound. This compound may be applied to the paper by rollers. The
30 ordinary grounding-machine can be used for this purpose. The compound is subsequently distributed evenly over the paper by subjecting the paper to pressure. The pressure may

be applied by an ordinary press or by any other suitable means.

The compound above described imparts a
35 luminous finish or surface to the paper, and the pressure which is applied serves to distribute the compound uniformly over the paper, and to prevent the streaky or varied appearance which the luminous surface would
40 present if pressure were not employed. By the term "paper" used herein I mean to include card-board and all analogous materials which are thicker than paper, but which may
45 be considered as included in that generic term.

I do not claim, broadly, the production of a luminous material which may be applied to paper or card-board; nor do I claim, broadly,
50 the production of paper or card-board having a luminous surface.

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

The process of rendering paper luminous, consisting in applying to the same a compound
55 of china-clay, blanc fixe, or other analogous substance, and luminous or phosphorescent material, and in subsequently distributing the compound by pressure uniformly over the surface of the paper, substantially as herein de-
60 scribed.

WM. TROTTER, JR.

Witnesses:

FREDK. HAYNES,
ED L. MORAN.