UNITED STATES PATENT OFFICE.

GEORGE T. JONES, OF CINCINNATI, OHIO.

MANUFACTURE OF BANK-NOTES AND PAPER THEREFOR OF ASBESTUS.

SPECIFICATION forming part of Letters Patent No. 307,956, dated November 11, 1884.

Application filed October 7, 1884. (Specimens.)

To all whom it may concern:

Be it known that I, GEORGE T. JONES, of Cincinnati, in the county of Hamilton and State of Ohio, have invented new and useful Improvements in the Manufacture of Bank-Notes and Paper therefor of Asbestus, of which the following is a specification.

For steel-plate printing, paper made from the palmetto is found fully equal to India paper and far superior to any good quality of paper in use for the printing of bank-notes, bonds, and other securities.

The first part of my invention consists in the manufacture of paper for bank-notes, bonds, and other securities, by combining a sufficient quantity of asbestus to prevent the entire destruction of the paper by fire, with palmetto, hemp, or its equivalent, having long fiber to impart greater strength.

The second part of my invention consists in the manufacture of paper for bank-notes, bonds, and other securities, with the denomination of the note or other security designated by means of silk fiber of different colors introduced within the body of the paper in the course of manufacture. I take, for example, green fiber to indicate $1; orange, to indicate $2; blue, to indicate $5, and scarlet to indicate $10. For $20 I combine any two of these, and for $50 and $100 and documents above that use three of the colors, according to any prearranged system. The fiber is also used for indicating the ownership or origin of the bank-note or other instrument by initials, names, or any other mark, private or otherwise, or any suitable device or form in which the colored fiber may be arranged.

The object in employing palmetto as the principal material for the body of the paper is to insure perfection in the printed impression. Asbestus is employed to provide a non-conductor and to afford protection from the action of heat. In addition to the effect of the colored silk fiber in indicating the denomination and ownership of the note it is useful in adding strength to the fabric.

I print bank-notes, bonds, certificates, and other securities in three colors, using black carbon-ink, green oxide of chromium, and burnt sienna. My object in using these three materials for color is that they are all produced at a higher degree of heat than could possibly reach the bank-note or other document in a safe of any kind when exposed to fire; hence the matter printed may remain uninjured in color in the event of fire, and will assist in the identification of the printed instrument.

To further increase the durability of the ink, I mix mica or asbestus, or both, therewith, previously pulverizing the same.

Having thus described my invention, the following is what I claim as new:

1. Paper for bank-notes or other securities manufactured from palmetto or other long fiber combined with asbestus, substantially as set forth.

2. Paper for bank-notes or other securities containing fibers of colored silk, so arranged as to indicate the value or origin of the document, substantially as set forth.

3. Paper for bank-notes and other securities manufactured of palmetto with asbestus and fibers of different colors to indicate values.

4. A bank-note or other representative of value printed upon paper made from a vegetable fiber and asbestus with ink made from a coloring-matter having a high fusing or combining temperature, substantially as set forth.

GEO. T. JONES.

Witnesses:
OCTAVIUS KNIGHT,
HARRY E. KNIGHT.