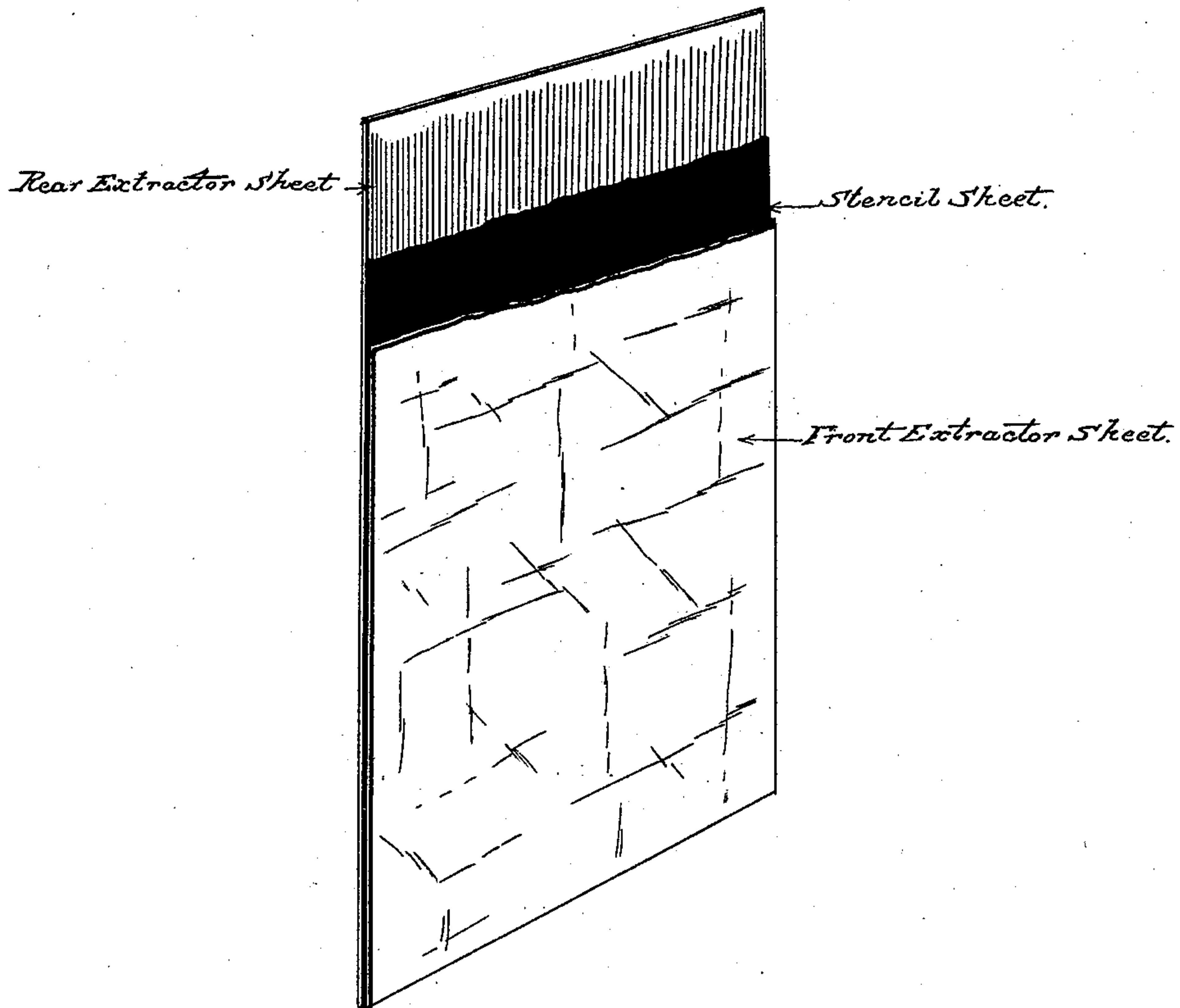


(No Model.)

W. G. FUERTH.
STENCIL.

No. 539,383.

Patented May 14, 1895.



WITNESSES

Chapman Fowler,
Thomas W. Fowler

INVENTOR

William G. Fuertth
by A. H. Evans & Co.
Attorneys

UNITED STATES PATENT OFFICE.

WILLIAM G. FUERTH, OF NEWARK, NEW JERSEY.

STENCIL.

SPECIFICATION forming part of Letters Patent No. 539,383, dated May 14, 1895.

Application filed October 27, 1890. Serial No. 369,642. (No specimens.)

To all whom it may concern:

Be it known that I, WILLIAM G. FUERTH, a citizen of the United States, residing at Newark, in the county of Essex, State of New Jersey, have invented certain new and useful improvements in the preparation of typograph stenciling material, to be used for the purpose of printing or reduplicating type-written or other matter requiring fac-simile reproduction, of which the following is a full, clear, and exact description.

The figure represents a stencil sheet with extracting sheets against its front and rear surfaces.

In order to enable others skilled in the art to make and use my invention I will proceed to describe its construction and indicate the manner in which I carry it out.

I first prepare a sheet of very porous tissue paper, of bamboo or other suitable fabric having sufficient strength of fiber, with a coating on both sides of an albumen paraffinoid mixture to make it soft and pliable as well as impervious to the ink that is used in printing. I then take a sheet of similar porous, or fibrous, material to be used over the paraffinoid or coated sheet for the reception of the impression or contact of the character to be reproduced on the prepared paper underneath. This uncoated sheet I call the protective sheet or extractor, every contact intended for the stencil sheet underneath being direct upon the surface of the extractor which takes up the preparation, or coating, from off the front side of the coated sheet beneath, laying bare the fiber portion within the space of such contacting character for the stenciling process. I next take a sheet of ordinary paper which I prepare to form a backing which is designed to act, first, to resist the force of contact and to embed the contacting character without rebounding, and secondly, to remove the preparation of the coated paper on the reverse, or rear, side of the point of contact so as to lay bare the fiber on both sides of the sheet, thus forming a stencil by extraction instead of cutting and perforating. It is obvious that by this extracting process, instead of perforating process, the more delicate characters, such as the loop letters "o," "p," "b," &c. are not liable to be punched or pulled out,

as the case may be, and the characters when reproduced do not appear broken or mutilated. My protecting sheet prevents the clogging of the contacting characters with the preparation or coating of the stencil sheet, thus obviating the necessity of stopping during the operation in order to pick out these accumulations which occasions a great loss of time.

With my extractor, or protection sheet, it is practically impossible to punch out or weaken the looped characters and I produce the strongest and cleanest possible (paper) stencil for the reproducing or reduplicating process.

Again in my process, I am permitted to correct errors while writing as the prepared surface of the paper permits me to operate directly upon it, which is not possible with other processes.

I do not claim in this application the soft paper backing as the same forms the subject matter of another application, Serial No. 354,394, filed by me June 5, 1890.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In combination with a stencil sheet, sheets of paper in front and rear thereof adapted to extract a portion of the coating of the stencil sheet within the lines of the extracting characters.

2. In combination with a stencil sheet having both sides coated, an uncoated extractor sheet in front thereof and an extractor sheet of soft paper in the rear of the stencil sheet adapted to have the characters embedded thereon.

3. In combination with a fibrous coated sheet other sheets in the front and rear thereof, adapted to simultaneously remove, by extraction, the coating of the fibrous sheet, within the lines of the contacting characters, whereby said coating is extracted in contradistinction to being driven through the stencil sheet, thereby neither abrading nor perforating the fiber of said stencil.

WILLIAM G. FUERTH.

Witnesses:

J. A. BEECHER,
R. H. DEAN.