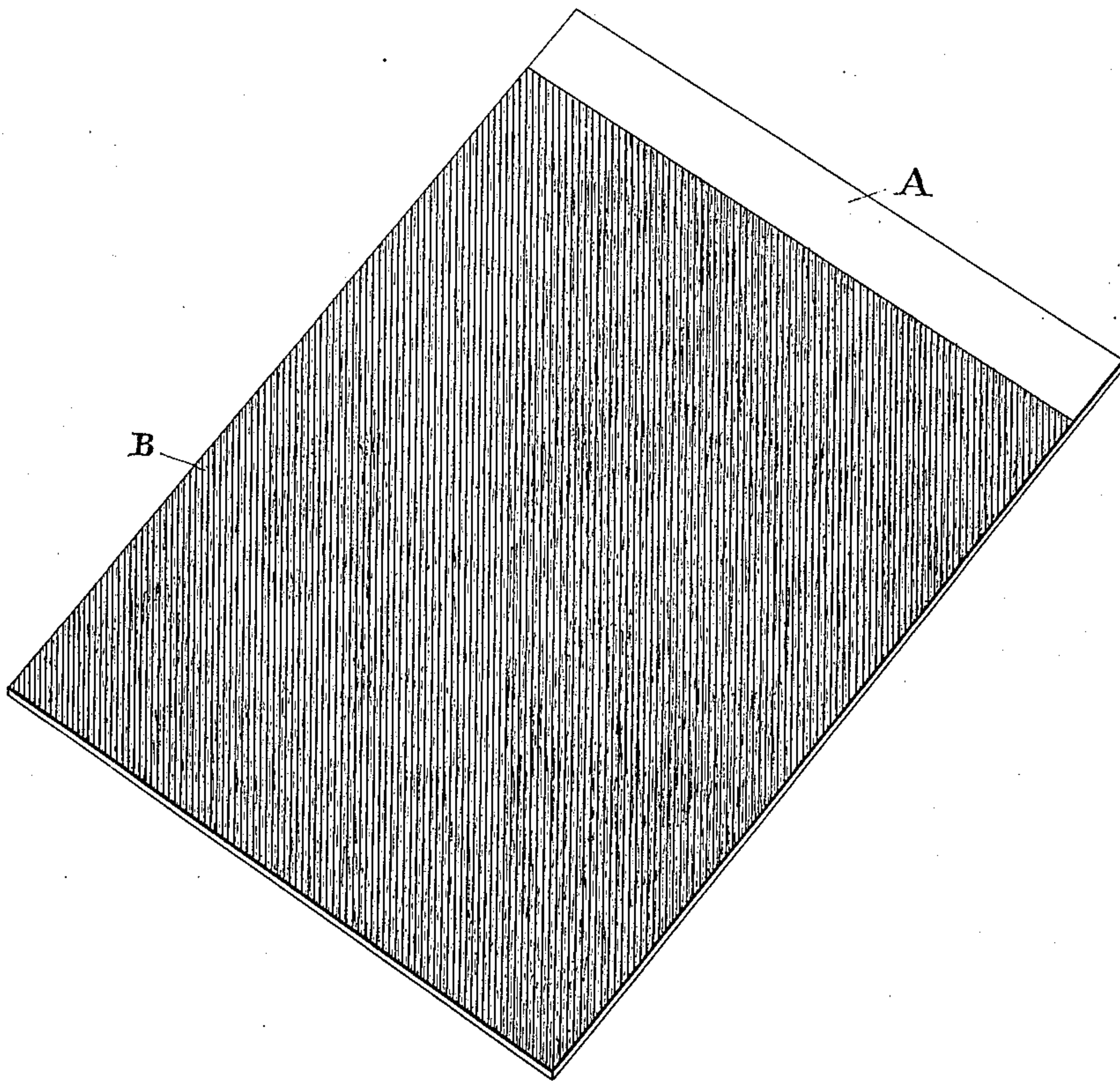


(Model.)

L. H. ROGERS.
CARBONIZED SHEET FOR MANIFOLDING.

No. 427,015.

Patented Apr. 29, 1890.



Attest:

Geo. T. Smallwood.
Philip Kaurer.

Inventor:

L. H. Rogers
by J. F. Folsom
his attorney.

UNITED STATES PATENT OFFICE.

LEBBEUS H. ROGERS, OF NEW YORK, N. Y.

CARBONIZED SHEET FOR MANIFOLDING.

SPECIFICATION forming part of Letters Patent No. 427,015, dated April 29, 1890.

Application filed October 10, 1889. Serial No. 326,554. (Model.)

To all whom it may concern:

Be it known that I, LEBBEUS H. ROGERS, of New York city, in the county and State of New York, have invented a new and useful
5 Improvement in Carbonized Sheets for Manifolding, which improvement is fully set forth in the following specification.

This invention has reference to the manufacture of carbon sheets for manifolding purposes, and relates particularly to carbon sheets designed for making duplicate copies of letters in books prepared for that purpose. Such letter-books are usually made up of series of two sheets, the upper sheet being of
15 ordinary writing-paper perforated or scored near the edge, so as to be readily detachable, and the second or under sheet of thin paper designed to remain permanently in the book. In use a carbon sheet is interposed between
20 the two, the letter or communication is written on the upper sheet, and the carbon duplicates the writing on the thin under sheet. Other books are arranged with the thin sheet uppermost, a manifolding-sheet carbonized
25 on both sides being inserted between the two, and the writing done with a stylus of smooth-pointed agate. In either case the leaves of the book give a soft or yielding surface which impairs the writing, and, moreover, the impression of the pencil or stylus will be transmitted through a number of these leaves, unless a sheet, board, or tablet of some rigid material—such as tin—be laid under the last
30 of the leaves upon which the writing is to be produced. These operations require considerable manipulation, which it is the object of this invention to avoid. A further object is to render the employment of a tablet or board unnecessary. These objects I accomplish by
35 the preparation of a manifolding-sheet of stiff or non-pliable material—such as card-board—having transfer material on one or both sides and of any desirable color.

In addition to the above-mentioned advantages secured by the use of a stiff manifold-

ing-sheet, it is found to be very convenient in use on account of the ease and accuracy with which it can be inserted between the leaves of the copy-book. In using the ordinary thin and flexible carbon paper this operation must
50 be performed with care, and consumes time.

The accompanying drawing illustrates a manifolding-sheet prepared in accordance with this invention.

A represents a sheet of card-board or similar material, upon which the carbon layer B is applied, either directly to the substance of sheet A or by pasting on it a thin sheet of carbon paper. The upper margin of the sheet is left clear, as shown, to facilitate handling.
55 60

In using this sheet it is placed under the thin leaf of the letter-book, thus serving as a pad or tablet. The writing is made upon the thick sheet and duplicated on the back of the thin sheet, being read through the latter,
65 which is transparent, or sufficiently so for the purpose.

To make triplicate copies one thick and two thin leaves are used, the stiff carbonized board is placed under the three, and a piece
70 of ordinary semi-carbon paper between the thick sheet and the first thin one.

There are other instances where the new stiff carbonized board can be employed with advantage in lieu of the pliable carbon paper;
75 but the uses above described are sufficient to show the utility of the invention.

I claim—

As an article of manufacture, a manifolding-sheet of rigid material—such as card-board—
80 having on its surface a coating or layer of transferable marking substance—such as carbon—substantially as described.

In testimony whereof I have signed this specification in the presence of two subscrib-
85 ing witnesses.

LEBBEUS H. ROGERS.

Witnesses:

H. D. ROGERS,
HOWARD WHITFIELD.