

T. F. HARRISON.

TRANSFER-SHEETS FOR COPYING.

No. 173,282.

Patented Feb. 8, 1876.

Fig. 1.

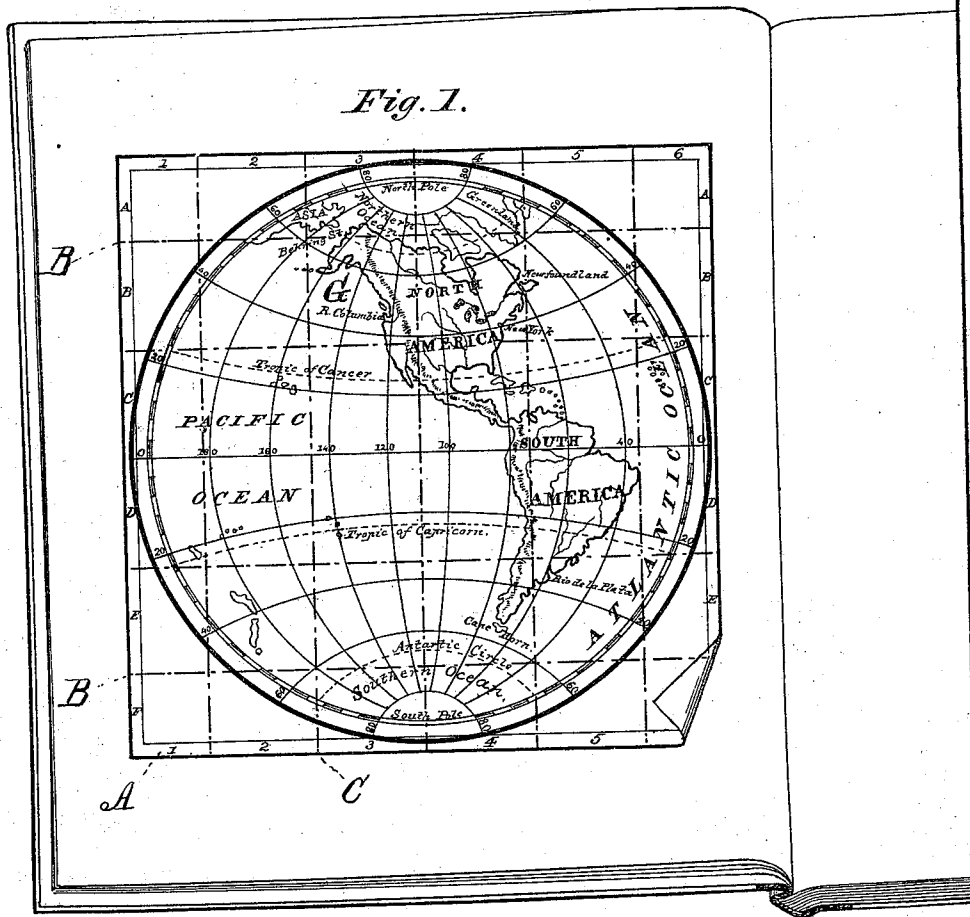
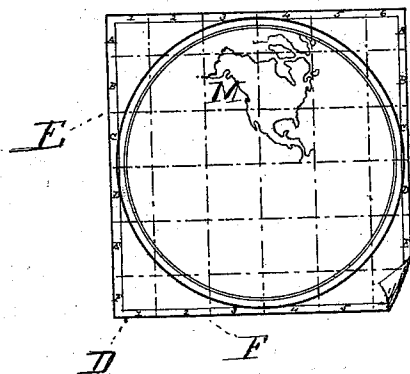


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

THOMAS F. HARRISON, OF NEW YORK, N. Y.

IMPROVEMENT IN TRANSFER-SHEETS FOR COPYING.

Specification forming part of Letters Patent No. **173,282**, dated February 8, 1876; application filed December 14, 1875.

To all whom it may concern:

Be it known that I, THOMAS F. HARRISON, of the city, county, and State of New York, have invented certain new and useful Improvements in Devices for Transferring Maps Drawings, &c.; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is a perspective view of an atlas with my device placed over a map thereof. Fig. 2 is a plan view of a sheet of paper to which the map of Fig. 1 is being transferred.

Heretofore, to assist in the transfer of maps they have been provided with lines forming spaces, the objects within any given space being transferred by free hand to a corresponding space upon paper printed with lines, forming spaces similar to those on the map. This was open to the objection of being very expensive, and of soiling the map by constant handling in the process of the transfer.

The object of my invention is to provide a means for transferring maps, engravings, drawings, &c., whereby they may be reproduced of the original size, or symmetrically enlarged or reduced, without marking the map, drawing, &c., or soiling the same; and it consists in the improved device hereinafter fully described and claimed.

A represents a sheet of material, either gelatine, mica, or other similar transparent flexible substance, upon which are placed lines B, crossing or intersecting lines C, forming a series of spaces. These spaces may be rectangular, as shown, or of any polygonal form. D represents a sheet of paper or other material, to which the map, drawing, &c., is to be transferred; also provided with lines E, which cross or intersect lines F, forming a series of spaces similar to, but one-half the size of, those formed by the lines B and C in Fig. 1.

In the drawing, I have shown my invention in use for transferring a map. The sheet A is placed over the map and held in position by the hand, or otherwise. A particular square, as that marked G, is then selected from which to begin. All that portion of the map embraced within the square is transferred by free-hand drawing to the corresponding square M on the sheet in Fig. 2, the objects and lines, &c., within the square G being made to occupy a corresponding position in square M.

When all the objects, lines, &c., in square G have been transferred to square M, a second square is taken in Fig. 1, the transfer being effected in the same manner to the corresponding square in Fig. 2. This operation is continued until the whole map is transferred.

I have shown the spaces in Fig. 2 one-half the size of those in Fig. 1, which causes a reduction of the map one-half in the transfer. These spaces may, however, be of the same size as those in Fig. 1 when it is desired to reproduce the map, drawing, &c., of the same size as the original, or they may be increased or diminished to such a size as to increase or diminish the size of the original in the transfer to any desired degree. The same mode of operation is employed in the transfer of engravings, drawings, &c.

The advantages possessed by my device are, that it can be used in connection with any atlas without the special printing of the lines, forming the spaces directly upon the maps, as above referred to. It can be used for the transfer of drawings, engravings, &c. In its use the map, drawing, &c., is prevented from being soiled by the contact of the hands or person with it in the process of the transfer, and a cheap and useful article is produced for children or persons desiring to transfer maps, drawings, &c.

I am aware that in transferring pictures fibrous and textile material made translucent has been before employed, and such I do not claim; but

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

As a new article of manufacture, a plate or sheet, A, of gelatine or similar transparent flexible material, provided with lines B and C, crossing or intersecting each other and forming spaces, substantially as shown and described, and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

THOS. F. HARRISON.

Witnesses:

E. B. ROLLINS,
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