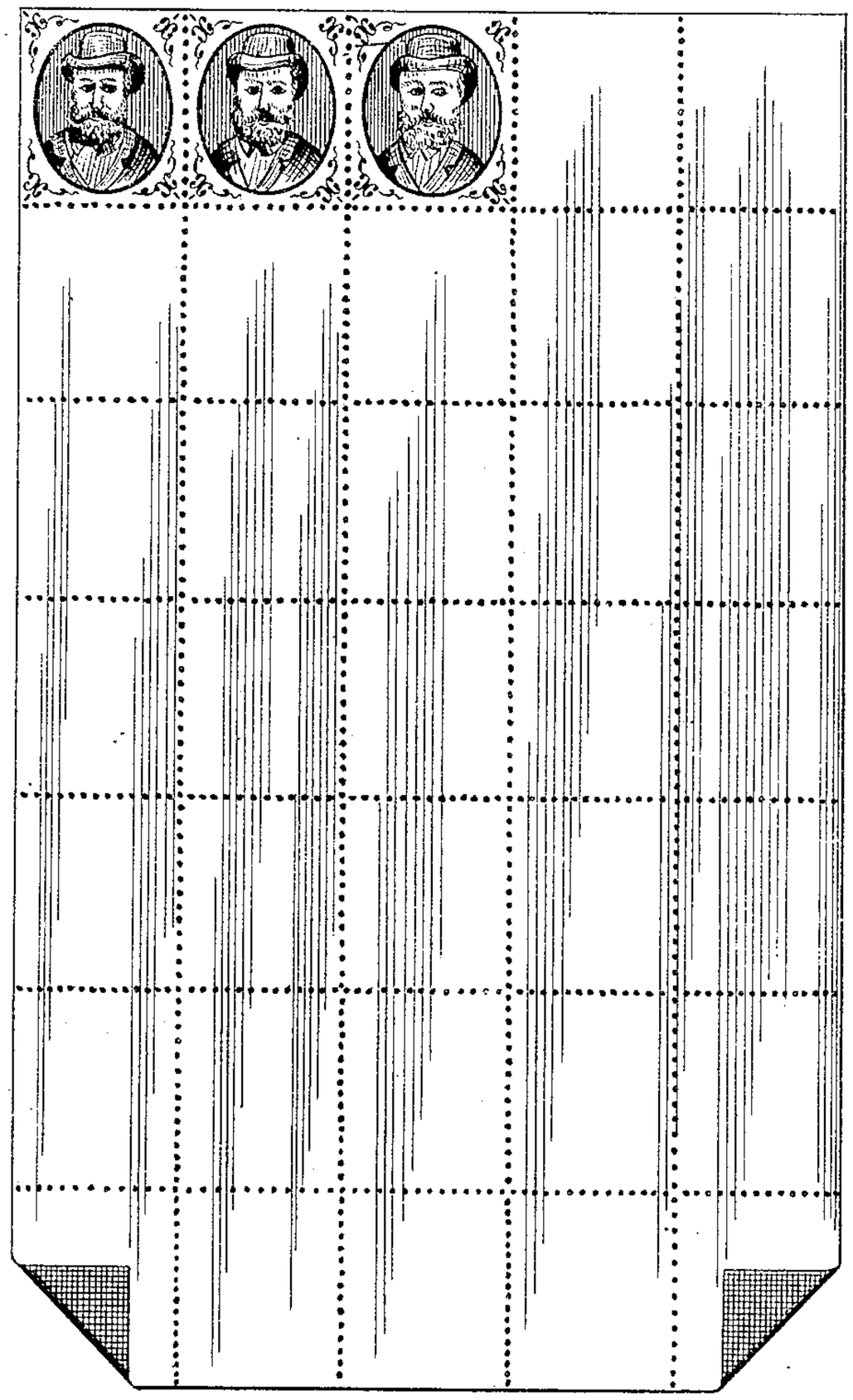
(No Model.)

O. L. HULBERT.

MULTIPLE PHOTOGRAPHIC SHEET.

No. 333,465. Patented Dec. 29, 1885.



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UNITED STATES PATENT OFFICE.

ORRIN L. HULBERT, OF ST. LOUIS, MISSOURI, ASSIGNOR TO HULBERT BROTHERS, OF SAME PLACE.

MULTIPLE PHOTOGRAPHIC SHEET.

SPECIFICATION forming part of Letters Patent No. 333,465, dated December 29, 1885.

Application filed June 29, 1885. Serial No. 170,128. (No model.)

To all whom it may concern:

Be it known that I, ORRIN L. HULBERT, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Photographic Sheets, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a sheet of photographs; and my invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

The drawing is a front view of one of the sheets containing thirty-five of the pictures, (or blanks, only three of the pictures being shown,) with the lower corners of the sheet turned up and lined to show that the sheet is gummed. All the pictures on the sheet are fac-simile, being produced at one exposure. They are then finished by burnishing, gummed, and are preferably divided by lines of perforations, as shown.

It is a common practice to burnish photographs after mounting them on card-board in order to improve their appearance. I have succeeded by experimenting in effectively burnishing the unmounted photograph-sheets. This is done before gumming the backs of the sheets or perforating between the pictures, and is a valuable part of my improvement, as it greatly improves the appearance of the pictures.

Unmounted multiple photograph-sheets present special difficulties in burnishing and finishing by reason of their essential peculiarities. For example, they are not made around one focus, like a single picture, but with numerous foci, and on such a small scale that great sharpness is necessary to produce a satisfactory effect. I have, therefore, devised an improved mode or process of burnishing, in order to develop, bring out, and heighten this effect, which is peculiarly important in this product, because the invention does not relate to single pictures which have heretofore been supplied to the trade on unmounted sheets, but to multiple photo-sheets made up of pictures each having its own independent effect, while they are all united on one sheet; hence the means heretofore employed for calendering paper or burnishing photographs are not satisfactorily available for finishing my multiple photograph-sheets.

My unmounted multiple photograph-sheets are either detached from each other or separated by intervening rows of perforations after burnishing, and in performing either of these operations the burnish is liable to be impaired unless a much heavier pressure is applied in the burnishing operation than is practicable or customary in burnishing unmounted sheets by the ordinary processes, as these processes do not apply or provide practical means for applying to an unmounted sheet the requisite pressure to compact and solidify the paper to the necessary extent. Some existing processes impart a comparatively high burnish to the central or most important part of an unmounted picture at the expense of the other portions; but this would not be satisfactory with my multiple photo-sheets, which require all parts of the sheet or every one of the small pictures to be burnished uniformly, perfectly, and to a high degree.

My improved method which I have perfected after a long series of experiments, and which I reserve the right to protect as a process under a separate patent, accomplishes the object with complete success, and is as follows: I wrap a three-ply bristol-board around a roller arranged on journals, so as to be revolved, fold the edge of the photo over the edge of the board, so as to keep the sheet in place, and pass it through the burnisher four or five times. The face of the photograph, instead of bearing upon rollers, is passed or slides over a steel plate which is heated from below. This plate is made of malleable silver steel tempered and polished, and is particularly suited for this purpose, owing to its fine and solid surface. The sheet is gummed on its back before being furnished to the trade, so that when the photographs are detached from the sheet they can be easily and conveniently attached to any object on which it is desired to apply them.

By thus preparing a sheet of photographs they can be easily detached one at a time from the sheet and applied or attached to the object.

I do not herein broadly claim a perforated

and gummed multiple photograph-sheet; neither do I broadly claim a burnished unmounted photograph.

I claim as my invention—

1. As a new article of manufacture, an unmounted sheet of fac simile photographs burnished on its face and gummed on its back, to afford means for the attachment of the pictures as they are detached from the sheet, as specified.

2. As a new article of manufacture, an unmounted sheet of fac-simile photographs burnished on its face and gummed on its back, and perforated between the pictures, as specified.

ORRIN L. HULBERT.

In presence of—
GEO. H. KNIGHT,
SAML. KNIGHT.