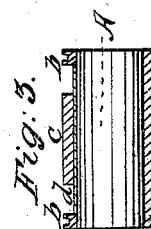
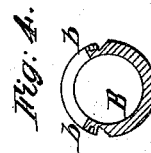
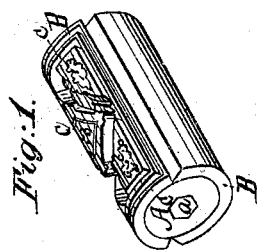


C. Starr.
Tools for Finishing Books.
N^o 7,911. Patented Jan. 21, 1851.



UNITED STATES PATENT OFFICE.

CHARLES STARR, OF NEW YORK, N. Y.

TOOL FOR EMBOSSING BACKS OF BOOKS.

Specification of Letters Patent No. 7,911, dated January 21, 1851.

To all whom it may concern:

Be it known that I, CHARLES STARR, of the city, county, and State of New York, have invented a new and useful Improvement in Tools for Embossing, Lettering, and Gilding or otherwise Performing what is Technically Termed Finishing Books After Binding; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1, is a perspective view. Fig. 2, is a transverse section of the tools mounted on the roller; Fig. 3 is a longitudinal section of the same. Fig. 4, is a transverse section of the outside case detached.

Similar letters of reference indicate corresponding parts in each of the several figures.

The nature of my invention relates to the circular or cylindrical tools used by book binders for embossing, lettering and gilding covers of books more especially their backs. It consists in the employment of a loose hollow cylinder or cylinders fitted upon a solid cylinder or roller and having spaces cut through to admit of loose tools being secured to the solid or foundation cylinder or roller; the edge of the space in the outside cylinder forming the frame margin or outline of the panel or ornament and the inside being filled with ornaments of any design suitable to the taste of the designer or binder.

To enable others skilled in the art to make and use my invention I will proceed to describe fully its construction and operation.

A represents the foundation roller or cylinder which is of metal provided with a hole *a*, which fits to a shaft or axle. B is a case or hollow cylinder which fits to the outside of the cylinder B, this case or cylinder being of the required diameter of the embossing lettering or gilding tool. An opening *b, b*, of any suitable form is cut through the case B, the edges or margin being of any suitable form; in the drawing it is represented as the frame or border of a panel for the back of a book. The space within the openings *b, b*, is filled or partly filled with small tools (*c*) (*c*) (*c*) which are secured as is also the case by glue or other adhesive material to the face of the roller A, each

tool having the same form as though it were part of the case or cylinder B, and if it is glued immediately to the roller A, must be of the same thickness as the case or cylinder; it is better however to glue a piece of paper (*d*) to the surface of the roller and glue the small tools *c, c, c*, to it as they will hold more securely; in the latter case the tools must be as much thinner than the case as the thickness of the paper. The tool when thus prepared is used in the same manner as a solid cylindrical tool either in my improved machine for backing and back-finishing or in any other way that may be convenient. Any number of short cases or cylinders B may be employed upon one foundation roller A, and letters, figures or any suitable device represented by or secured within spaces cut in each.

The principal advantage of this improvement in the manner of forming the tools consists in the great number of devices which may be formed by a small number of tools.

I do not claim forming various devices by gluing or securing loose or detached tools to a surface as that is common. But

What I do claim as my invention and desire to secure by Letters Patent, is—

Forming circular embossing gilding or lettering tools of any required pattern for embossing gilding and lettering book covers by having a case or hollow metal cylinder B, fitting on a roller A, and having an opening *b, b*, or openings in it of any required form for a panel or other border, the part of the periphery of the roller A, within the opening or openings in the case having any required number of small tools *c, c, c*, of any suitable form or pattern secured to it, the surfaces of the said tools standing even with the outer face of the case or cylinder B, or by the employment of any number of tools consisting of parts of a hollow cylinder secured to a solid cylinder substantially in the manner herein described.

In testimony whereof I have hereunto signed my name before two subscribing witnesses this fourth day of January 1851.

CHARLES STARR.

Witnesses:

O. D. MUNN,
R. W. FENWICK,