C. H. O. RADDE.

MOLDS FOR SOLID-COLOR PRINTING-BLOCKS.

No. 187,729. Patented Feb. 27, 1877.

FIG. 2.

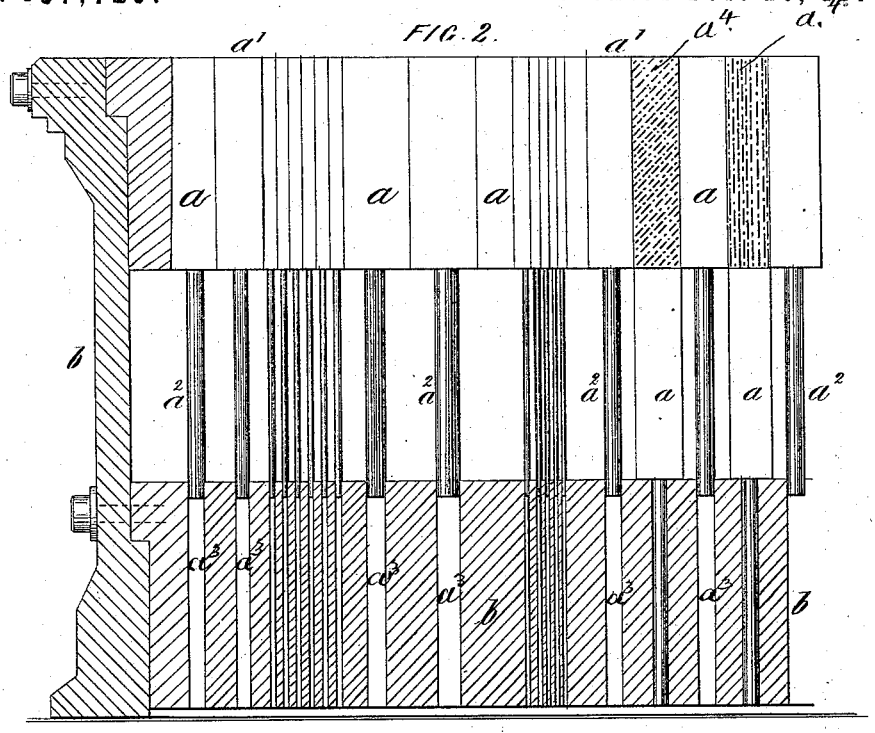
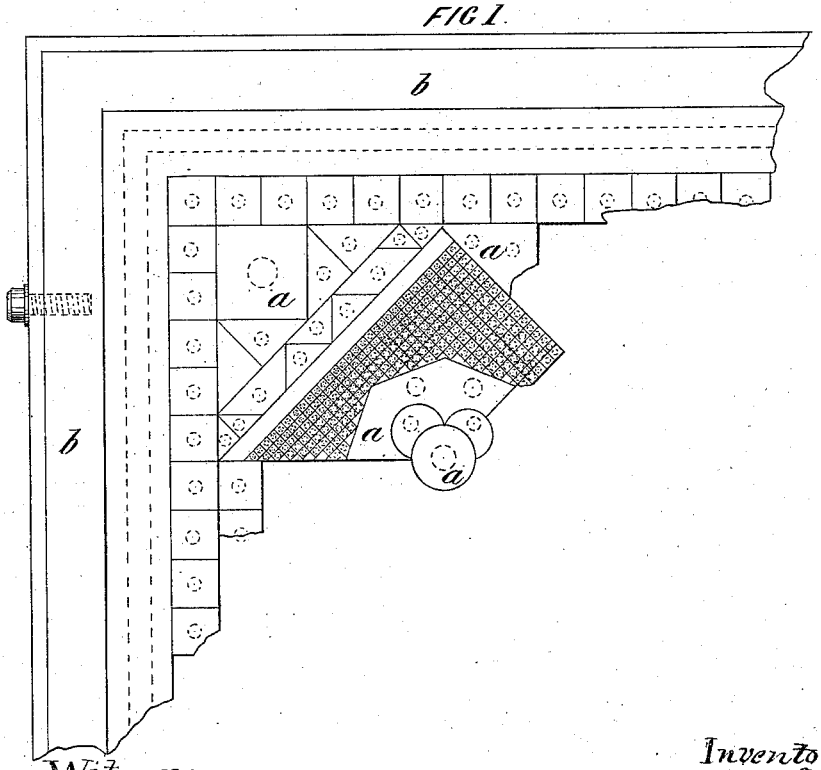


FIG 1.



Witnesses
Pennington Halsted.
W. R. Edelen.

Inventor
C. H. O. Radde
per John J. Halsted
his Atty.

UNITED STATES PATENT OFFICE.

CARL H. O. RADDE, OF HAMBURG, GERMANY.

IMPROVEMENT IN MOLDS FOR SOLID-COLOR PRINTING-BLOCKS.

Specification forming part of Letters Patent No. **187,729**, dated February 27, 1877; application filed December 19, 1876.

To all whom it may concern:

Be it known that I, CARL HEINRICH OTTO RADDE, of Hamburg, in the Empire of Germany, merchant, have invented a new and useful Improved Mold for Solid-Color Printing-Blocks, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

The object of the invention is to facilitate the reproduction in quantity of copies of pictures or representations in varieties of colors or tints, when such colors have been mixed with suitable composition, that will enable such combined colors and composition to be cut, molded, or shaped to desired forms; which forms are composed, as hereinafter described, into such relation one to another in a suitable frame or holder as, when so combined, to form on their surface a picture or representation, of which, by the aid of a suitable press and appliances, copies may be readily obtained upon paper or other suitable fabric or material prepared to receive such impressions.

When various-colored printing compositions capable of being softened by heat are to be made up of repeats of squares or other forms, I employ a frame, *b*, with the parts which are to receive the coloring matter composed of the desired blocks or forms *a*, having any required shape in cross-section—as, for instance, square, triangular, &c.—and these forms are supported in this frame *b*, so as to be capable of vertical and correct motion therein by their stems a^2 being received and sliding in separate sockets a^3, as represented in plan and section, Figs. 1 and 2.

In starting, in the use of this apparatus, the outer ends a^1 of all the forms *a* should, when lifted, produce one uniform even surface, and all these blocks or forms, being in place, should mutually, by their frictional contact or by the friction of their stems, be adapted to be held up in their raised or elevated positions; and I commence with one of the colors required in a fluid state, and having pushed down such of the forms *a* as correspond with that color, so as to leave a chamber or series of chambers of the required configuration for that particular color, I then pour in this color, so as to fill such chamber or chambers, as illustrated at a^4 a^4, Fig. 2. I then proceed in like manner with another color to fill another or other chambers, and so on until the whole of the chambers have been filled by all the forms having been pushed down and colors filled into the chambers or spaces produced, taking care that every color is allowed to solidify before any other color is poured next to it. The thickness or cake of combined colors is then suitable for use in color-printing.

I claim—

The combination of a frame, *b*, with a system of vertically-movable blocks or forms, *a*, supported severally upon appropriate guides or stems, and each adapted, when pushed down in the frame, to leave a chamber for the reception of the coloring matters, as described.

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

CARL HEINRICH OTTO RADDE.

Witnesses:

PAUL MÖLLER,

H. SCHRADER.