

UNITED STATES PATENT OFFICE.

JULIUS HERRIET, OF NEW YORK, N. Y., ASSIGNOR TO G. G. WELLS, OF
HARTFORD, CONNECTICUT.

IMPROVEMENT IN ELASTIC TYPE FOR PRINTING ON IRREGULAR SURFACES.

Specification forming part of Letters Patent No. **9,911**, dated August 2, 1853.

To all whom it may concern:

Be it known that I, JULIUS HERRIET, of the city, county, and State of New York, have invented a certain new and useful Elastic Type-Plate for Printing on Irregular Surfaces, and on smooth but hard surfaces, such as glass, wood, plaster, oil-cloth, &c; and I do hereby declare that the following is a full, clear, and exact description of the same.

The nature of my invention consists in forming letters, figures, or other characters or figures, such as may be desired to be printed or stamped on irregular surfaces, or on smooth but hard surfaces, by molding a very elastic substance in a mold containing the requisite impressions or figures, which substance should be highly elastic. The substance which I have tried with success is a compound consisting of the best kind of "Cooper's glue," as it is known in the arts, and molasses. Having made the required impression of the types or other figures in a plaster or other kind of mold in the process of stereotyping, I then take three parts, by weight, of the best Cooper's glue and two parts of molasses and thoroughly mix them together at the requisite degree of heat, in the same manner as when employed for making inking-rollers for printing-presses, and when sufficiently baked I pour it into the mold, and

when cooled it is taken out. The surface will be found to have taken a complete impression of the mold with all the characters in relief. The substance thus produced will be found to be highly elastic, and to hold and impart any of the known kinds of printer's ink, and from its elasticity impressions can be made on irregular and uneven, or smooth but hard surfaces with facility.

The figures or characters in relief I usually raise to a greater extent than in making stereotype-plates of metal, particularly when intended for printing on very uneven surfaces. The said plates can be made to vary in the degree of elastic tension by varying the relative proportions of glue and molasses, as is well known to those who make inking-rollers.

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

Making, by casting in molds or by pressure, plates with raised characters or figures, the entire substance of such plates being sufficiently elastic as to adapt it to printing, substantially as described.

JULIUS HERRIET.

Witnesses:

CAUSTEN BROWNE,
HENRY BYRON.