

UNITED STATES PATENT OFFICE.

DAN LICHTENBERG-MADSEN, OF ODENSE, DENMARK.

PROCESS OF PRODUCING MATRICES AND STEREOTYPES OF CELLULOID.

SPECIFICATION forming part of Letters Patent No. 672,534, dated April 23, 1901.

Application filed September 30, 1898. Serial No. 692,318. (No model.)

To all whom it may concern:

Be it known that I, DAN LICHTENBERG-MADSEN, a subject of the King of Denmark, residing at Odense, Denmark, have invented
5 a new and useful Improvement in Processes of Producing Matrices and Stereotypes of Celluloid, of which the following is a specification.

My invention relates to a process of manufacturing
10 stereotypes of celluloid from matrices of celluloid, which matrices may be employed for producing an indefinite number of celluloid stereotypes all exhibiting the fineness and detail of the original die or matrix.

15 With this end in view I proceed as follows: A mass of celluloid is first softened by heat and when in this condition a matrix the exact counterpart of an original die is formed therein by pressing the die upon the softened
20 mass, and after this has been done the celluloid mass is permitted to cool and harden and is then in condition for use.

In the production of a celluloid stereotype
25 by means of the hard celluloid matrix I heat the stereotype-plate and force the same into

the matrix in the celluloid mass, which mass being of course of greater proportions than the thin stereotype-plate will not be affected by the heated condition of said plate, and there will therefore be no danger of the ad-
30 herence of said stereotype-plate to the matrix, and the fine lines of the matrix will be reproduced with perfection and exactitude upon said plate.

Having thus described my invention, what
35 I claim is—

The process of producing stereotypes of celluloid which consists in first heating a mass of celluloid and forming a matrix therein, then permitting said mass to cool and harden;
40 then heating a celluloid plate; and finally pressing said plate when in a plastic condition into the cold celluloid matrix.

In witness whereof I have hereunto set my hand in presence of two witnesses.

DAN LICHTENBERG-MADSEN.

Witnesses:

THEODOR HOLNY,
MAGNUS JENSEN.