

# UNITED STATES PATENT OFFICE.

WILLIAM F. YOUNG, OF BUFFALO, NEW YORK.

## IMPROVEMENT IN CLEARING HAT-BODIES.

Specification forming part of Letters Patent No. **130,781**, dated August 20, 1872.

### SPECIFICATION.

I, WILLIAM F. YOUNG, of the city of Buffalo, county of Erie, and State of New York, have invented a certain Process for Clearing Hat-Bodies for making cassimere hats, of which the following is a specification:

First, give the body the required color and stiffen with shellac in the usual manner; second, when dry fit it upon the block on which it is to be finished and iron with a damp cloth and a hot iron; third, with a solution of carbonate of ammonia, in the proportion of two and a half-ounces of the carbonate to one quart of water, clear the gum from the surface of the body, while still on the block. When it appears sufficiently clear, neutralize the alkali with acidulated water by using three drams of sulphuric acid to the quart. Rinse with clean water; then slip the block and hang the shell up to dry. Finish the same as any cassimere hat.

By this process of clearing a body on the block a hat may be made of a body from one-third to one-half lighter than by any other known method, thereby effecting a saving of a large amount of stock, and at the same time adding to the comfort and beauty of the finished hat.

I do not claim the use of ammonia and sulphuric acid, or any alkali or acid by which hat-bodies may be cleared.

What I claim as my invention is—

The process of clearing a hat-body on the block, substantially as described.

WILLIAM F. YOUNG.

Witnesses:

HENRY W. BOX,  
DAVID S. REYNOLDS.