

UNITED STATES PATENT OFFICE.

CHARLES B. CARTER, OF LAWRENCE, MASSACHUSETTS.

IMPROVEMENT IN PROCESSES OF MAKING WOOD-PULP.

Specification forming part of Letters Patent No. **215,880**, dated May 27, 1879; application filed December 11, 1878.

To all whom it may concern:

Be it known that I, CHARLES B. CARTER, of Lawrence, in the county of Essex and Commonwealth of Massachusetts, have invented a new and useful process for removing oils and acids from woods preparatory to reducing or cooking the same to pulp, and preparing the same for the purpose of paper-manufacture, which process is fully set forth in the following specification.

This invention relates to that class of processes employed to remove the oils and acids from woods used in the manufacture of paper, and dispenses with (in part) the use of chemicals or acids therefor; and consists, first, in placing the wood to be operated on in a retort capable of receiving the same, and there distilling the same until the oils and acids are nearly freed therefrom and the wood reduced to a standard, (the moisture of the wood serving for all required water,) after which the wood thus partially freed from oils and acids and reduced is taken and placed in rotaries,

and there reduced to pulp much as in the old form.

My process differs, essentially, from the old in reducing the wood to be operated on to a standard such that the same will be operated on at all times, under like circumstances, by a previous distillation, and previous to its being placed in the rotaries, where the same, by reason of the above treatment, is reduced to a pulp in about one-twentieth of the time now required.

Having thus described my said invention, I claim as new and desire to secure by Letters Patent—

The process of partially removing the oils and acids from woods by a process of distillation, substantially as and for the purpose described.

CHAS. B. CARTER. [L. S.]

Witnesses:

WM. F. MOYES,
CHAS. D. MOORE.

Reis 9551