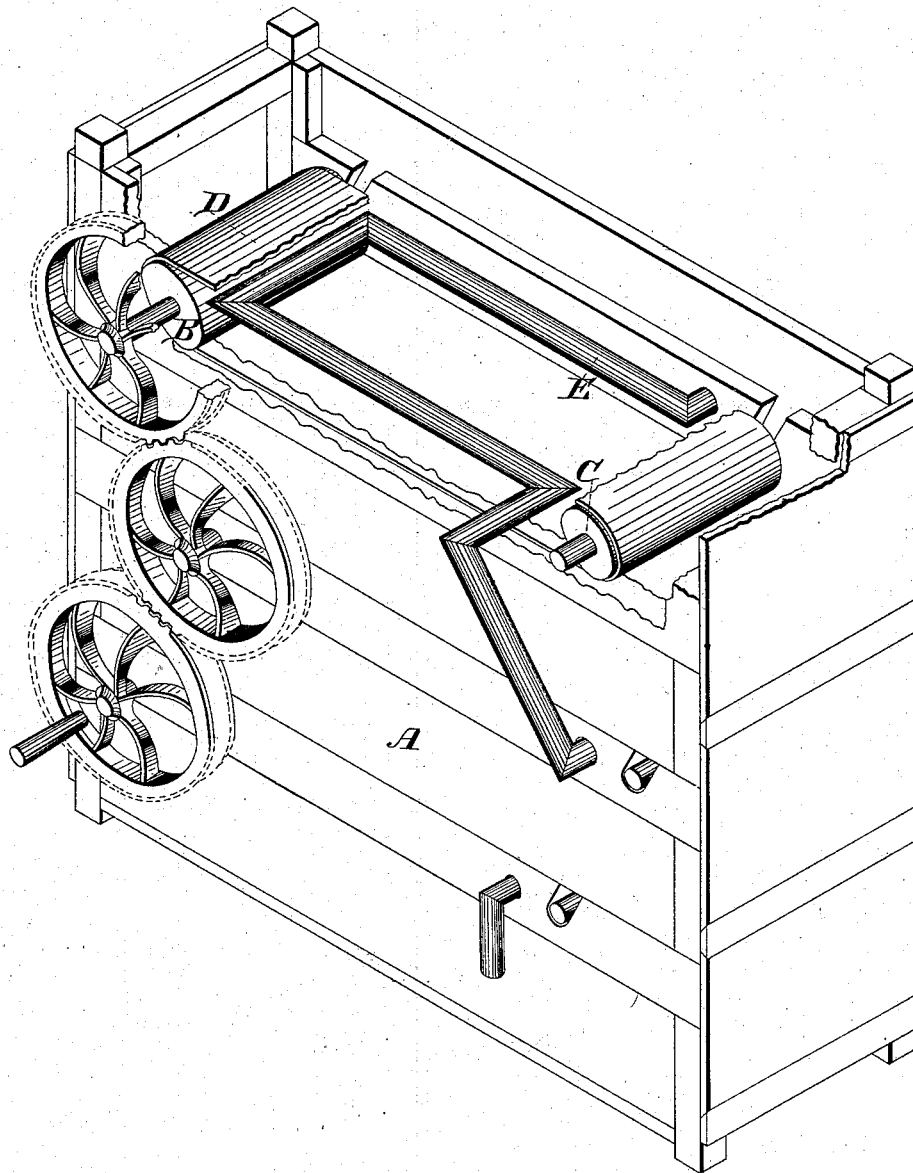


W. H. PEASE.

Tobacco Drier.

No. 48,306.

Patented June 20, 1865.



Witnesses:

Charles Alexander

John P. Jacobs

Inventor:

W. H. Pease

per Charles Alexander & Co.

UNITED STATES PATENT OFFICE.

W. H. PEASE, OF DAYTON, OHIO.

TOBACCO-DRIER.

Specification forming part of Letters Patent No. 48,306, dated June 20, 1865.

To all whom it may concern:

Be it known that I, W. H. PEASE, of Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Machines for Drying Tobacco; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

In the annexed drawing, which represents a perspective of my machine with one of the belts broken and a portion of the frame-work removed, A represents the frame of the machine, which consists of a rectangular wooden box, made of sufficient size, and constructed in any known and substantial manner. Within this frame are located six or more rollers, which have their journal-bearings in the sides of the said frame, two of which are seen and represented by the letters B C. Three rollers are located at one end of the frame and three at the other end, lying horizontally and one above the other, (at the ends of the frame,) but not in a vertical line. The roller C does not lie immediately over the roller beneath it, but falls short of a vertical line to the center of said lower roller. The roller beneath roller B falls short, also, of a vertical line erected upon the roller beneath it. The object of arranging the rollers in this manner is that when belts are placed around them, as will be hereinafter described, the upper belt will always empty its contents upon the belt immediately under it. By having the belts moving in opposite directions, as must be the case when they are connected by a system or series of gear-wheels, as will be described, and having the lower belts project beyond those immediately above them, it is evident that the tobacco will be precipitated from the upper to the lower belts and that it will be turned and mixed in passing from the one to the other. These rollers are connected together in pairs by means of endless belts, which pass around them, D representing one of the belts,

which connects the two upper rollers, and which is broken, as shown, in order to see the arrangement within. The rollers at one end (of which B represents one) are connected together by means of gear-wheels, so that when power is applied to one they all revolve, revolving the belts, and consequently the rollers at the other end, around which the belts pass.

E represents a pipe for hot air or steam, which enters the box at one side near the roller C, passes down toward and near the roller B, then crosswise of the box and back toward the roller, then out of the box and in again in the same manner between each of the belts. This pipe is located, as will be seen, between the belts, and is for the purpose of conveying heat to the belts.

The tobacco to be dried is placed upon the upper belt after heat has been introduced within the frame through the pipe E, and then the rollers and belts are set in motion by any convenient power. The tobacco passes along toward the end of the box upon the belt, over the roller at that end, and then falls upon the next belt, presenting the other side of the tobacco to the heat from the next belt, and so on to the next belt, and so on to as many as may be arranged within the frame, until it is thoroughly dried. It will thus be seen that while the tobacco is being dried it is constantly moving and constantly shifted, so as to render it more subject to the influences of heated air and belts within the frame.

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

The arrangement of the endless belts D D in connection with the tubes or pipes E, the whole being used and operating as and for the purpose specified.

W. H. PEASE.

Witnesses:

G. W. HOGLEN,
THOS. BROWN.