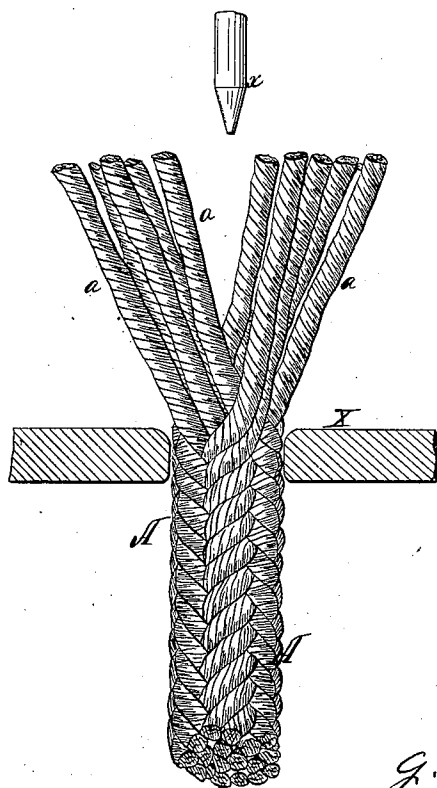


J. Glanding,
Piston Packing.
N^o 77,275. Patented Apr. 28, 1868.



Witnesses:

Mr. Albert Hall
J. Parker.

Inventor:

J. Glanding
By his Atty
H. Howdson

United States Patent Office.

JAMES GLANDING, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO HIMSELF, DAVID H. WILSON, AND EDWARD S. LOWRY, OF SAME PLACE,

Letters Patent No. 77,275, dated April 28, 1868.

IMPROVEMENT IN THE MANUFACTURE OF PACKING FOR STEAM-ENGINES.

The Schedule referred to in these Letters Patent and making part of the same,

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JAMES GLANDING, of Philadelphia, Pennsylvania, have invented an Improved Packing for Steam-Engines, &c.; and I do hereby declare the following to be a full, clear, and exact description of the same.

My invention consists of a packing, composed of fibrous strands, into which melted paraffine or stearine, or other equivalent lubricant, with or without soapstone, is introduced, during the plaiting of the strands together, as described hereafter, so that the fibres may be thoroughly impregnated with the said lubricant.

In order to enable others to practise my invention, I will now proceed to describe the manner of carrying it into effect, reference being had to the accompanying drawing, which forms a part of this specification, and the figure in which represents the packing as it appears during the process of its manufacture.

A represents a mass of twisted fibrous strands braided or plaited together, so as to form a solid mass of twisted fibres of hemp, jute, cotton, or other equivalent fabric.

The braid, at or near the point where the different strands are interlocked, passes through an opening in a plate, X, by means of which the strands are condensed and the braid rendered uniform in thickness; and above the said plate, in a line with the centre of the said opening, is a nozzle, z, through which flows melted paraffine or stearine, or a mixture of paraffine and soapstone, or any other lubricating-material or composition, the lubricant being thus introduced to the strands at a point where they are being united, so as to thoroughly saturate them, and fill the interstices between the fibres, the edge of the opening in the plate X spreading any of the lubricant which may escape from between the strands evenly over the outer surface of the braid, as the latter descends.

Lubricating-materials have heretofore been applied to packings either by passing the latter, after the strands composing the same have been combined, through the lubricant, or by passing the strands separately through the lubricant before combining them.

It will be seen that, by the above-described process, the lubricant is introduced among the strands during the process of plaiting them together, and that, as any subsequent operation is unnecessary, the expense of manufacturing the packing is greatly reduced.

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

The process, herein described, of applying lubricating-material to packing, that is to say, introducing the material among the fibrous strands during the plaiting of the latter together, and at the point where they are being united, substantially as specified.

In testimony whereof, I have signed my name to this specification in the presence of two subscribing witnesses.

JAS. GLANDING.

Witnesses:

CHARLES E. FOSTER,

W. J. R. DELANY.