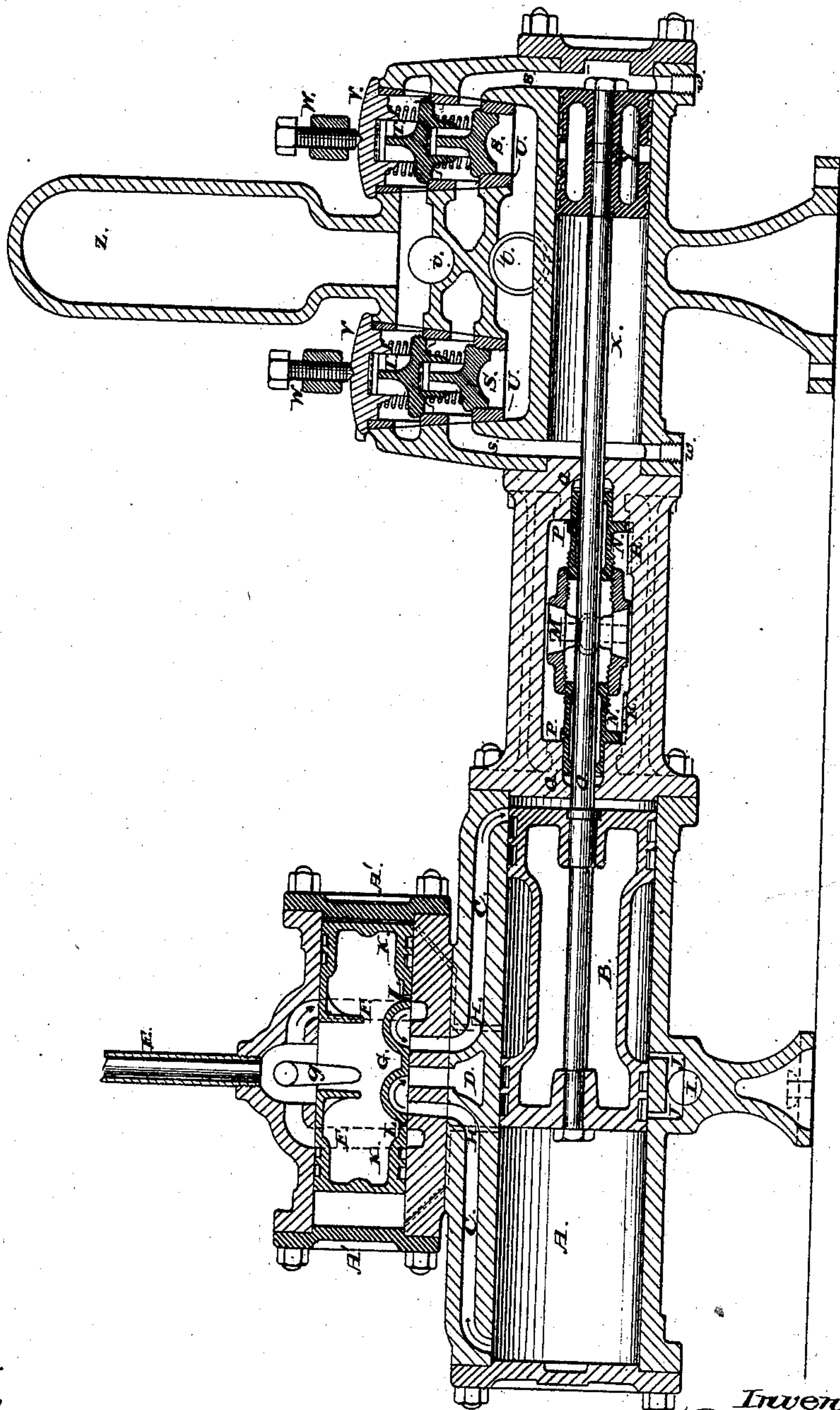


T. NORTHEY.  
Double Stuffing-Boxes for Steam-Pumps.  
No. 203,553. Patented May 14, 1878.



Attest:  
W. J. Harvey  
C. M. Cullough

Inventor:  
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by Wm Bruce

Atty:

# UNITED STATES PATENT OFFICE.

THOMAS NORTHEY, OF HAMILTON, ONTARIO, CANADA.

IMPROVEMENT IN DOUBLE STUFFING-BOXES FOR STEAM-PUMPS.

Specification forming part of Letters Patent No. **203,553**, dated May 14, 1878; application filed September 14, 1877.

*To all whom it may concern:*

Be it known that I, THOMAS NORTHEY, of the city of Hamilton, in the county of Wentworth, in the Province of Ontario, Dominion of Canada, have invented a certain new and useful Improvement in Double Stuffing-Boxes of Steam-Pumps; and I do hereby declare that the following is a full, clear, and exact description of the construction of the same.

My invention relates to the combination, in the double stuffing-box of a steam-pump, of a double nut and packing-glands, in such a manner that the double nut, being acted upon by a wrench or lever fitting into holes provided in the periphery of the nut, and having cut on it a right and left hand thread, working on corresponding screws on the glands, will draw them out or into the stuffing-boxes of the steam-cylinder simultaneously. The glands have recesses formed in the inside, and have oil-holes leading into them, and also guides formed on them to prevent them from turning round.

The object of my invention being not only to give great facility in packing the glands, but also to give a uniform pressure of the packing on the parts of the piston and pump rod working through the glands, and for keeping the glands perfectly true and in line with

the rod to insure the perfect lubrication of the piston-rod by the cavities or recesses in the glands, and to preserve the glands from turning when they are drawn in or out, I form guides on them, which work on corresponding guides on the stuffing-boxes.

In the accompanying drawing, M is the double nut, and N N are the packing-glands, which have projections that fit over the guides R R, to keep them from turning when they are drawn in or out. O is the piston-rod. P P are the recesses formed in the glands for lubricating the rod. Q is the double stuffing-box, which has guides R R for the packing-glands.

I claim—

1. The combination of double nut M with the glands N N, having projections fitting over guides R R, substantially as set forth.

2. In a double stuffing-box, the glands N, connected by a device for withdrawing them from the stuffing-boxes simultaneously, as described.

Dated at Hamilton, Ontario, this 5th day of July, A. D. 1877.

THOMAS NORTHEY.

In presence of—

C. P. BAGHOTT,  
WM. BRUCE.