

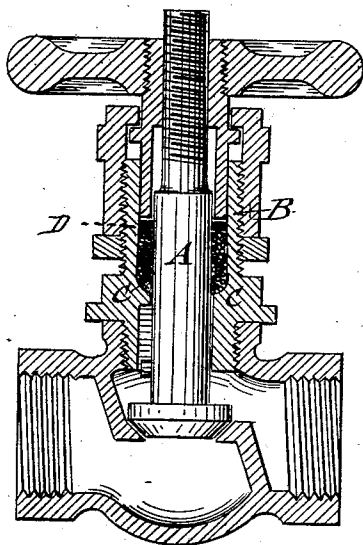
(No Model.)

W. HAAS.  
ROD PACKING.

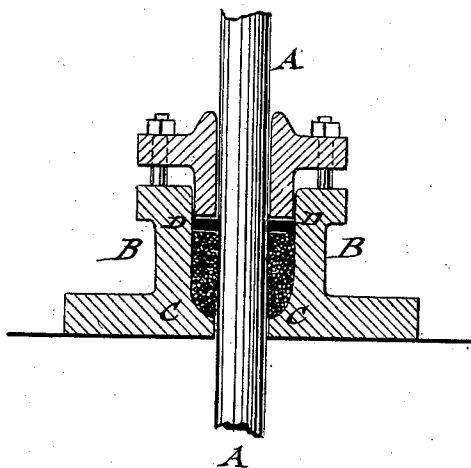
No. 266,031.

Patented Oct. 17, 1882.

*Fig. 1.*



*Fig. 2.*



WITNESSES:

*Joh. H. Rosenbaum.*  
*Otto Risch.*

INVENTOR

*William Haas*  
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# UNITED STATES PATENT OFFICE.

WILLIAM HAAS, OF NEW YORK, N. Y.

## ROD-PACKING.

SPECIFICATION forming part of Letters Patent No. 266,031, dated October 17, 1882.

Application filed March 11, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM HAAS, of the city, county, and State of New York, have invented certain new and useful Improvements in Rod-Packing, of which the following is a specification.

The object of this invention is to furnish an improved packing for steam-valves and stuffing-boxes; and the invention consists of a packing made of small shot of a suitable anti-friction metal, said shot filling the space around the stem of the valve or piston-rod of the stuffing-box, and being retained at one or both sides by an asbestos or other packing-ring.

In the accompanying drawings, Figures 1 and 2 represent vertical central sections of a valve and of a stuffing-box with my improved packing.

Similar letters of reference indicate corresponding parts.

A represents the stem of a steam-valve or the piston-rod of a stuffing-box; B, the exterior casing of the valve or stuffing-box; and C the packing, which is composed of fine shot of any suitable anti-friction metal, which is made to fill the entire annular space around the valve-stem or piston-rod and the casing. In place of the shot, other small irregular pieces of

metal may be used for filling the space around the valve-stem or rod; but I prefer round pieces, such as fine shot. A packing-ring, D, of asbestos or other suitable material is arranged at one or both sides of the packing C, so as to properly confine the same. The shot or other small pieces of metal serves as a steam-tight packing, owing to the fact that the steam condenses in the small intermediate spaces formed between the shot or other pieces of metal. This water of condensation forms also a kind of lubricant for the valve-stem or piston-rod, whereby the motion is facilitated and the durability of the packing increased.

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

The combination, with a steam-valve or stuffing-box and a valve-stem or piston-rod, of a packing of fine shot placed in a cavity of the valve or stuffing-box around the valve-spindle or piston-rod, and retained by a packing-ring and tightening-sleeve, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

WILLIAM HAAS.

Witnesses:

PAUL GOEPEL,  
CARL KARP.