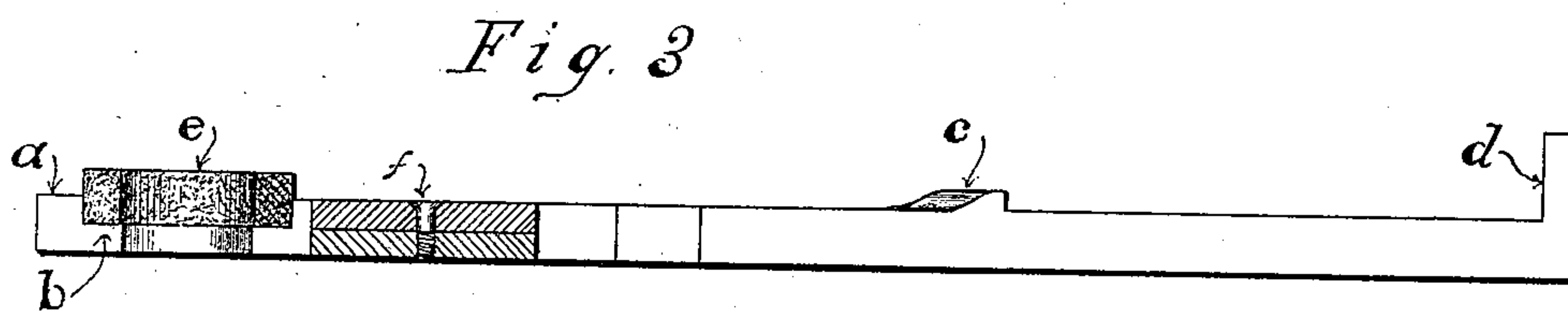
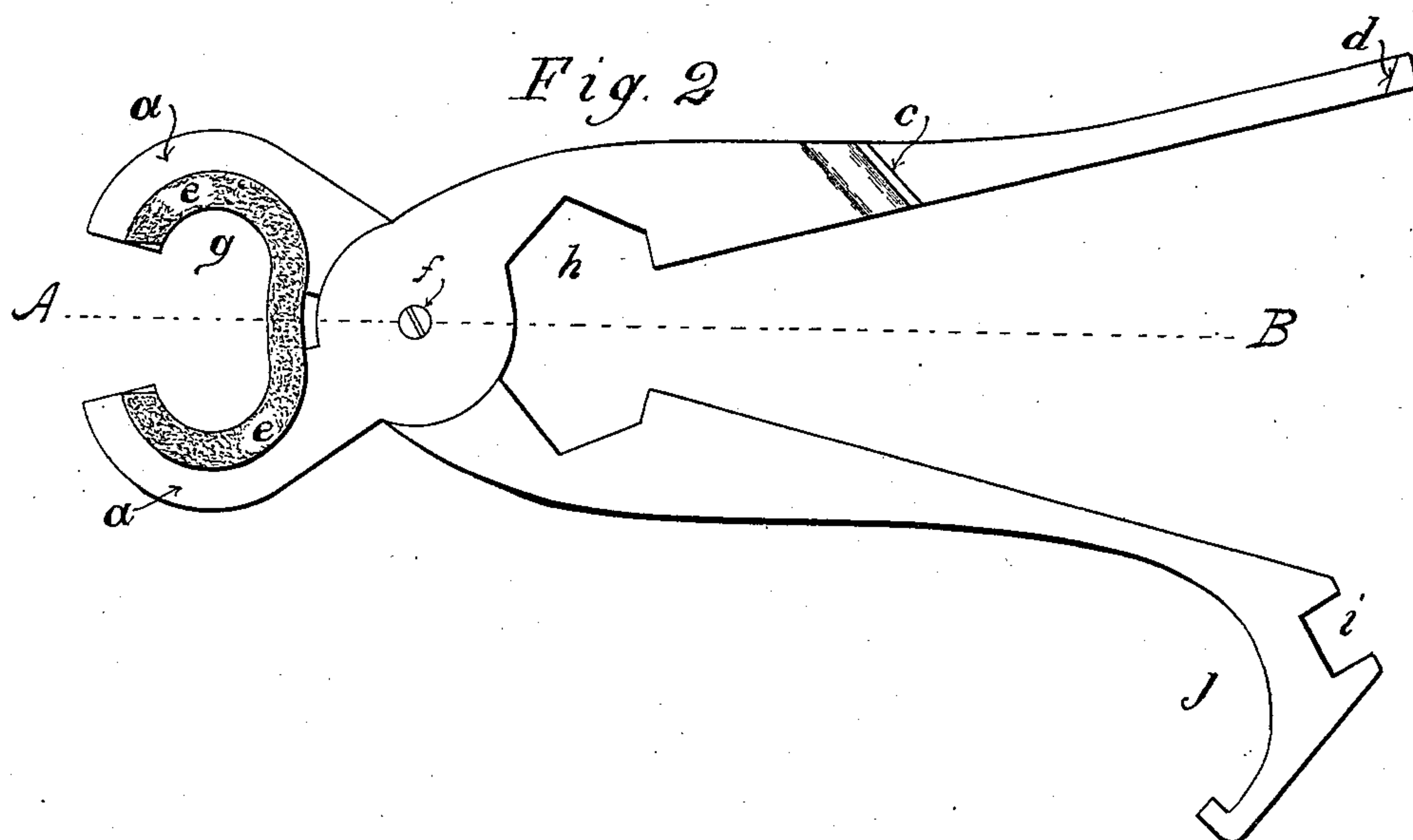
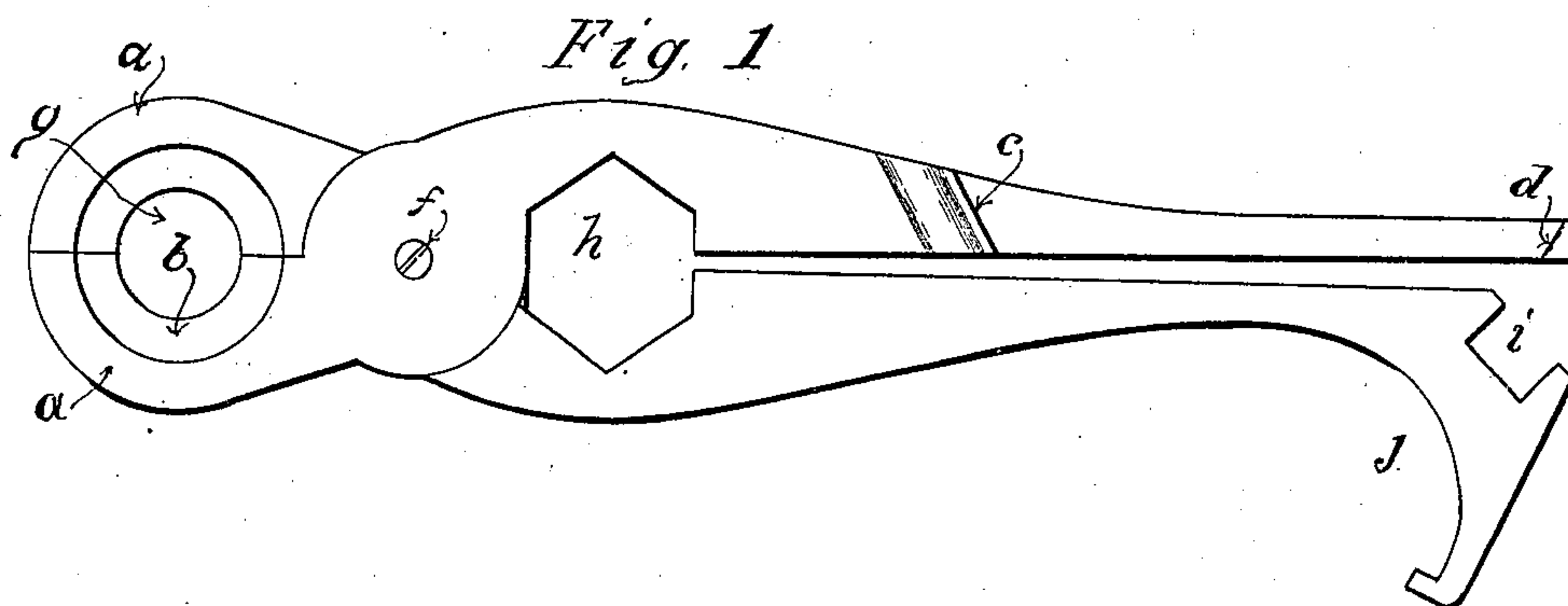


(No Model.)

W. R. DRUM.
TOOL FOR PACKING PISTON RODS.

No. 563,577.

Patented July 7, 1896.



Witnesses
George H. Buckman
Charles L. Garver

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UNITED STATES PATENT OFFICE.

WILLIAM R. DRUM, OF WINFIELD, KANSAS.

TOOL FOR PACKING PISTON-RODS.

SPECIFICATION forming part of Letters Patent No. 563,577, dated July 7, 1896.

Application filed February 3, 1896. Serial No. 577,947. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. DRUM, a citizen of the United States, residing at Winfield, in the county of Cowley, in the State of Kansas, have invented a new and useful Tool for Packing Piston-Rods, of which the following is a specification.

My invention relates to an improved tool for placing the packing around a piston-rod of an air-pump or other pump or other appliance having a piston-rod which is required to be packed with square packing; and the objects of my invention are, first, to place the packing around the piston-rod securely; second, to place the packing around the piston-rod in such way that the joints may be broken and thus more nearly attain the object for which the packing is used, and, third, to reduce the time of placing the packing around the piston-rod, the packer being especially adapted for use on the Westinghouse air-pump as used on railway-locomotives. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 represents a plan view of my improved packing-tool in its closed condition. Fig. 2 represents a plan view of the packing-tool in its open condition and embracing the packing to be placed in position, and Fig. 3 is a longitudinal section taken at the line A B of Fig. 2.

Similar letters refer to similar parts throughout the several views.

a a represent the semicircular jaws of the tool. These jaws are countersunk or recessed, as shown at *b*, to constitute seats to receive the packing *e*, which is grasped by the vertical walls of the jaws *a a*, as clearly illustrated in Figs. 2 and 3.

The jaws *a a* are formed integral with the rearwardly-extended handles, which are pivoted together by the screw or rivet *f*, as clearly shown. One of the handles is formed with a depression, (represented at *c d*,) serving as a gage to indicate the length of the packing and the bevel upon which the ends should be cut to produce the desired results, the drawings representing a tool made to a scale adapted for use in packing the piston-rods of the ordinary Westinghouse air-pump. The packing is placed upon the gage-handle

and cut according to the gage, and then placed within the open jaws in the position shown at Fig. 2.

In a tool adapted for use with the ordinary Westinghouse pump, as above stated, the countersunk rim *b* should be one-half inch in width and one-quarter of an inch below the top plane of the rims *a a*, and the packing should be of such thickness as to extend one-quarter of an inch above the rims *a a*, as shown most clearly at Fig. 3. After the packing has been thus located within the jaws of the packing-tool, the jaws are placed around the piston-rod and closed to the position shown in Fig. 1, and the tool moved toward the stuffing-box until the projecting portion of the packing is forced into the space between the stuffing-box and piston-rod. The jaws are then opened to release the tool and leaving the packing in position to be jammed or forced inwardly by the lug *d*, cast on the end of one of the handles of the tool.

h i j represent ordinary wrenches, which constitute no part of my invention, but are intended simply to increase the utility of the tool.

My improved packing-tool may be made of any desired size, according to the use for which it is designed, and may be made with or without the series of wrenches, the features of my invention resting in the construction of the jaws and providing the handle with a gage and packing-lug, as heretofore described.

What I claim as new, and desire to secure by Letters Patent, is—

1. The packing-tool provided with the rims *a, a*, and countersunk packing-seats *b*, and provided with suitable operating-handles pivoted together, substantially as shown and described.

2. In a packing-tool, the combination with the jaws *a, a* and rims *b, b*, constructed as described and having rearwardly-projected and pivoted handles, the gage *c, d*, and packing-lug formed on one of the handles, substantially as and for the purpose set forth.

WILLIAM R. DRUM.

Witnesses:

GEORGE H. BUCKMORE,
SUSAN M. PALMER.