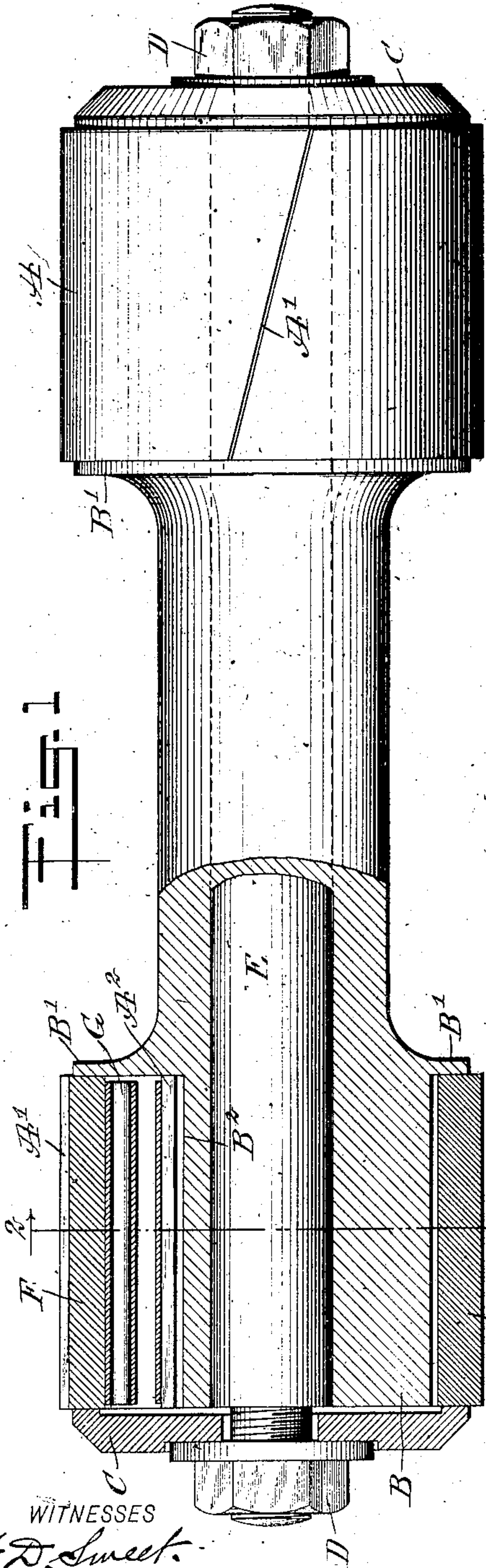


No. 850,001.

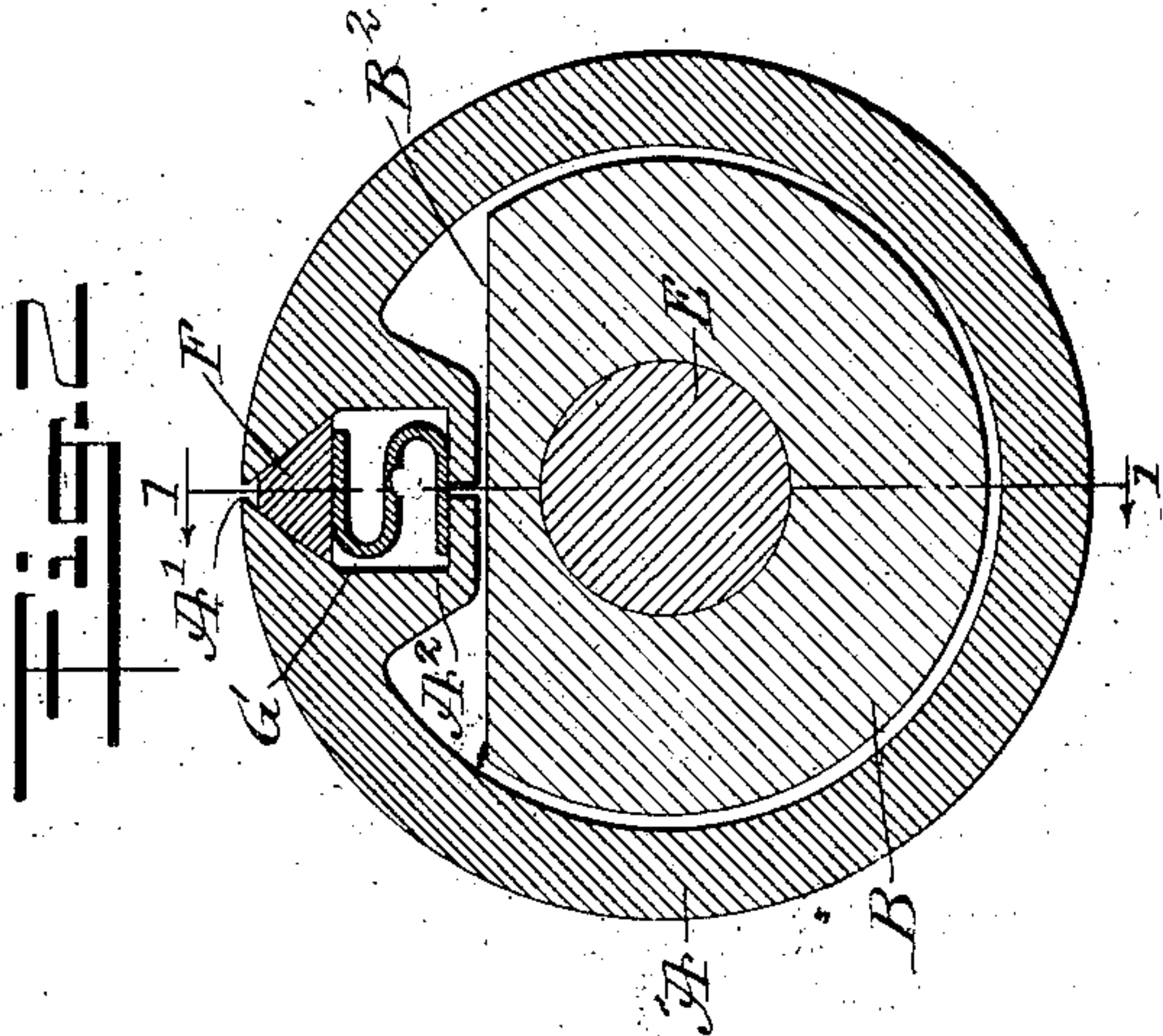
PATENTED APR. 9, 1907.

S. HOLMES.
PACKING.

APPLICATION FILED JAN. 19, 1907.



WITNESSES
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STEWART HOLMES, OF NEW YORK, N. Y.

PACKING.

No. 850,001.

Specification of Letters Patent.

Patented April 9, 1907.

Application filed January 19, 1907. Serial No. 353,073.

To all whom it may concern:

Be it known that I, STEWART HOLMES, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Packing, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved packing for pistons and the like which is simple and durable in construction and very effective in operation.

The invention consists of novel features and parts and combinations of the same, which will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in both the views.

Figure 1 is a plan view of the improvement as applied to a steam-pump piston, parts being shown in section on the line 1 1 of Fig. 2; and Fig. 2 is a transverse section of the same on the line 2 2 of Fig. 1.

The packing-ring A is loosely fitted on the body B of the piston, and the inner end of the said packing-ring A abuts against an annular shoulder B', integral on the body B, and the outer end of the said packing-ring A is engaged by a washer C, held in place by a nut D, screwing on the outer end of the central piston-rod E, as plainly indicated in Fig. 1.

The packing-ring A is provided with a diagonally-extending split A', having its walls beveled and engaged by the sides of a spreader-bar F, preferably made triangular in cross-section, as plainly indicated in Fig. 2, the base of the spreader-bar being engaged and pressed outward by a spring G or a similar means held on a seat A², formed integrally on the inside of the packing-ring A at the split A'.

By reference to Fig. 2 it will be seen that the seat A² is split in the direction of the split A', and instead of the spring G above mentioned liners or like devices may be employed for forcing the spreader-bar F outward, with a view to open the split ring A, so as to firmly engage the inner surface of the cylinder in which the piston is used. Now in

order to accommodate the seat A² the body B is flattened, as at B², (see Fig. 2,) it being expressly understood that the seat A² is an integral part of the ring A and supports the spring G or other means for forcing the spreader-bar F outward.

The packing described is very simple and durable in construction, can be cheaply manufactured, and readily applied.

By constructing the packing in the manner above set forth, and shown in the drawings, it is evident that the outer surface of the ring snugly fits the inner surface of the cylinder in which the piston is used, the ring being spread apart with sufficient force by the spreader-bar F so as to prevent all leakage from one side of the piston to the other.

The ring A is preferably made of steel, while the spreader-bar F is made of softer metal, preferably brass, to prevent the outer corner of the spreader-bar from cutting into the surface of the cylinder.

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

1. A packing for pistons and the like comprising a ring having a diagonal split, the walls of the split being beveled inwardly and said ring being provided with an integral seat on the inside of the ring at each side of the split, and extending in the direction of the said split, a spreader-bar triangular in cross-section and engaging the walls of the split with its sides, and a spring resting on said seats and engaging the base of the spreader-bar to force the latter outward.

2. A packing for pistons and the like comprising a ring having a diagonal split and provided with a seat integral on the inside of the ring and extending in the direction of the said split at the latter, a spreader-bar triangular in cross-section and extending with its sides into the said split, and a spring held on the said seat and engaging the base of the spreader-bar to force the latter outward.

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

STEWART HOLMES.

Witnesses:

THEO. G. HOSTER,

EVERARD B. MARSHALL.