

No. 758,905.

PATENTED MAY 3, 1904.

H. T. EVANS.
PACKING.

APPLICATION FILED SEPT 19, 1903.

NO MODEL.

Fig. 1

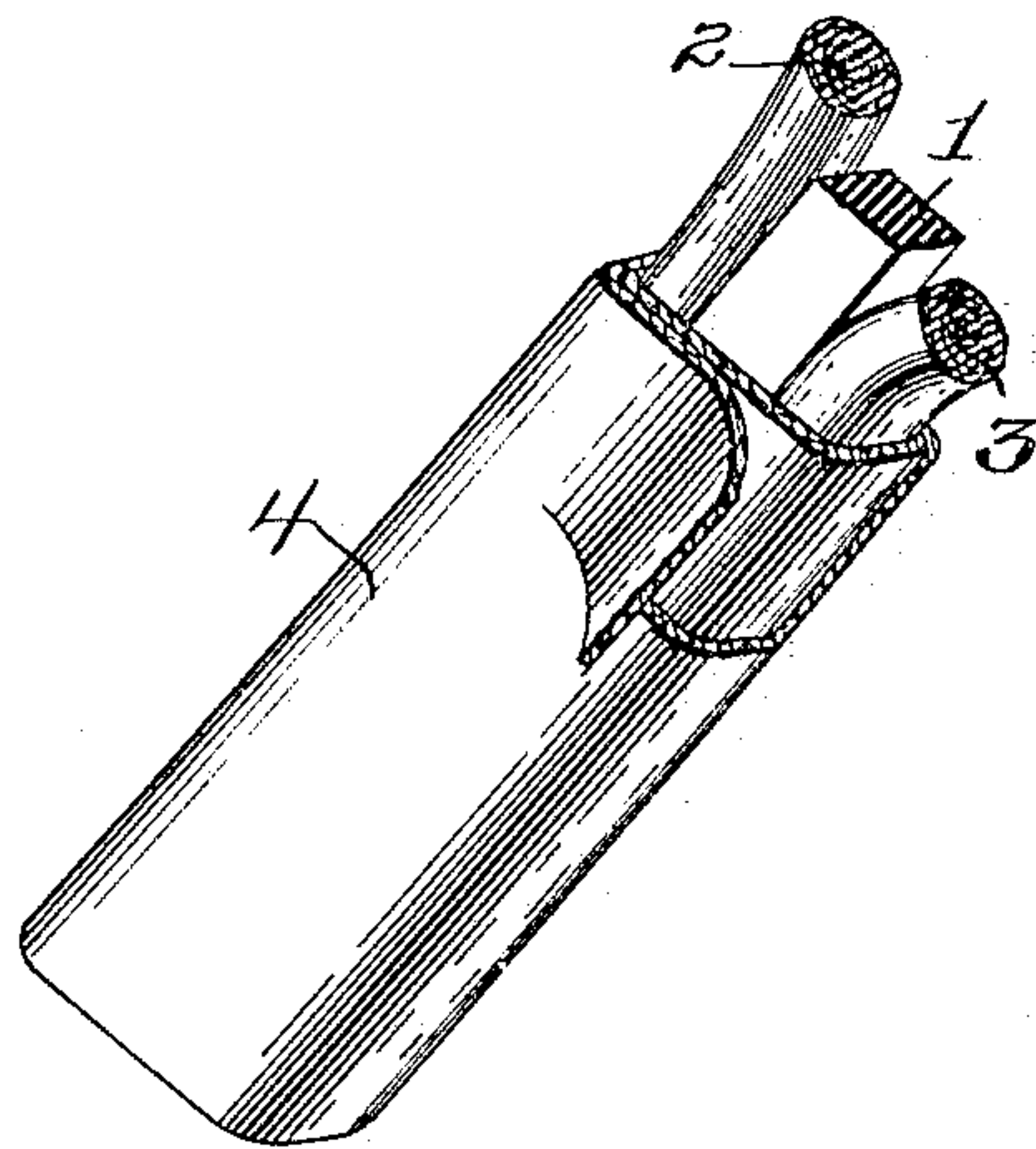
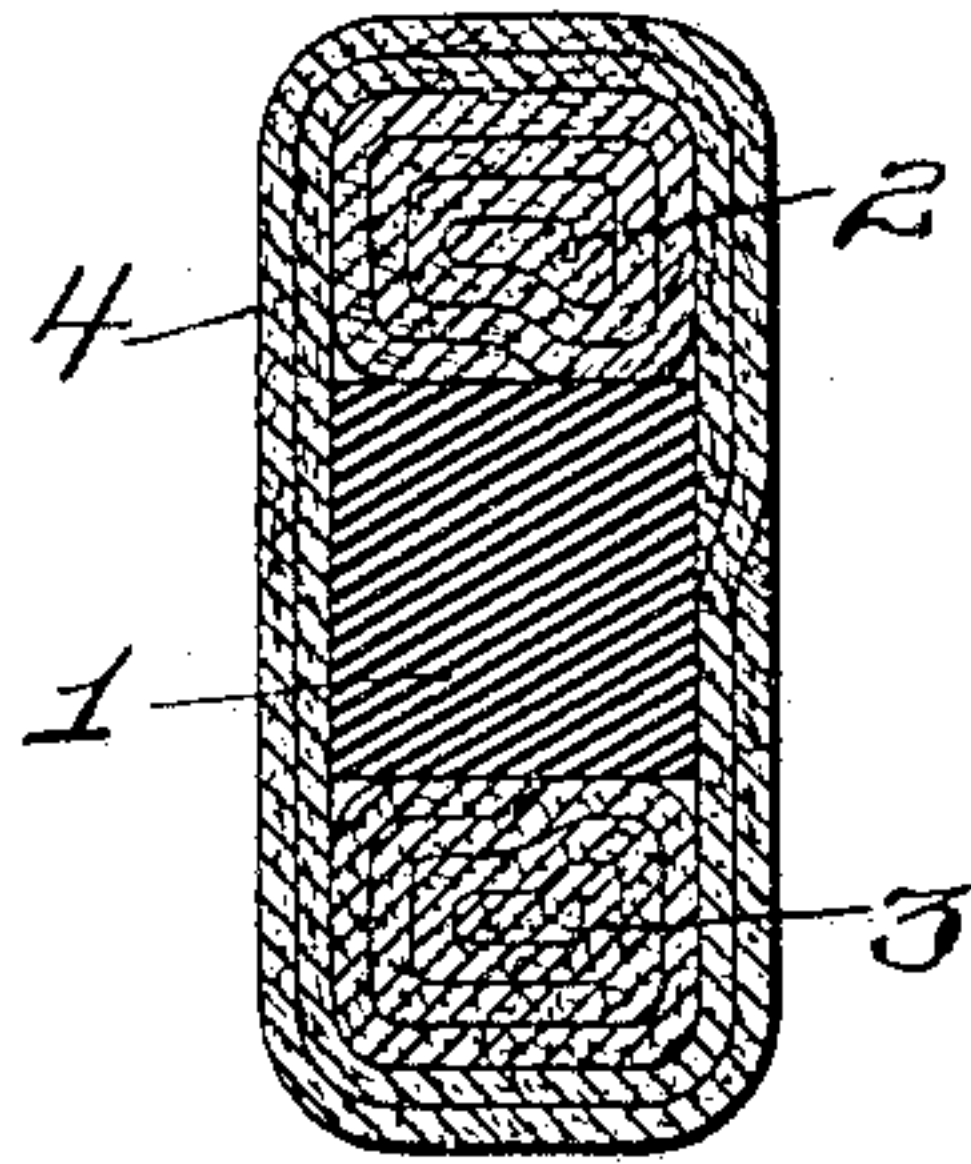


Fig. 2.

Witnesses:

G. G. Fuss.

Fred W. Bernack.

Inventor.

Harry T. Evans.

By his Attorney,

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UNITED STATES PATENT OFFICE.

HARRY T. EVANS, OF NEW YORK, N. Y.

PACKING.

SPECIFICATION forming part of Letters Patent No. 758,905, dated May 3, 1904.

Application filed September 19, 1903. Serial No. 173,775. (No model.)

To all whom it may concern:

Be it known that I, HARRY T. EVANS, a citizen of the United States, residing in New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Packing, of which the following is a specification.

This invention relates to packings for stuffing-boxes, and has for its objects the furnishing of a durable packing material to be readily inserted in stuffing-boxes and which is capable of automatically adapting itself to the inequalities on the surfaces of piston-rods and valve-stems working through it and presenting for wear upon the rods a durable surface, which also adapts itself to the imperfection of form in the rod. These desiderata are effected by combining with a core of preferable plastic material cushions of textile material and an envelop, also of textile material, adapted to retain and also convey a lubricant.

Referring to the drawings forming a part of this specification, Figure 1 is a cross-sectional view of a packing, and Fig. 2 is a perspective view of a piece of a packing partly frayed out at one end to disclose the construction.

Similar characters of reference indicate like parts.

I preferably provide a core or center 1 of some suitable plastic material possessing a proper degree of resilience, such as rubber. On either side of this core 1 I place cushions 2 and 3 of some suitable textile material, such as asbestos, which operates as a non-conductor of heat, hence shielding the core to prevent rapid deterioration thereof. These cushions are preferably formed of rolls, as seen clearly in Fig. 1, and are thus adapted to be spread into place or any desired shape, according to the desired contour of the packing. Around the structure thus formed is placed an envelop 4, which is also preferably constructed of some suitable heat-non-conducting material which not only holds the cushions 2 and 3 to the core 1, but also protects the latter against heat and wear, as seen in Fig. 1.

One of the important advantages is that the packing may be formed of any desired contour or dimension. For instance, upon the cushions 2 and 3 may be piled other cushions to increase the cross-sectional length, or cushions may be differently arranged at will. Further, the particular construction of this packing gives almost a continuous cushion from end to end of a stuffing-box; also, the core being centrally located and enveloped by a heat-non-conducting element is protected from that deterioration which so readily befalls this character of packings. Hence the resilience of the packing is maintained.

I reserve the right to vary the construction of the packing within the purview of this invention, also to substitute materials.

Having thus described my invention, I claim—

1. In a packing, a resilient core, cushions built up in rolls and surrounding the core, and an inclosing envelop.

2. In a packing, a resilient core, cushions built up in rolls on either side of said core, and an inclosing envelop for the core and rolls.

3. In a packing, a resilient core, cushions built up in rolls of heat-non-conducting material and surrounding the core, and an inclosing envelop.

4. In a packing, a resilient core, cushions built up in rolls of heat-non-conducting material and surrounding the core, and an inclosing envelop also of heat-non-conducting material.

5. In a packing, a rubber core, cushions built up in rolls of asbestos and disposed on either side of the core, and an asbestos envelop.

Signed at Nos. 9 to 15 Murray street, New York, N. Y., this 21st day of August, 1903.

HARRY T. EVANS.

Witnesses:

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