

No. 671,643.

Patented Apr. 9, 1901.

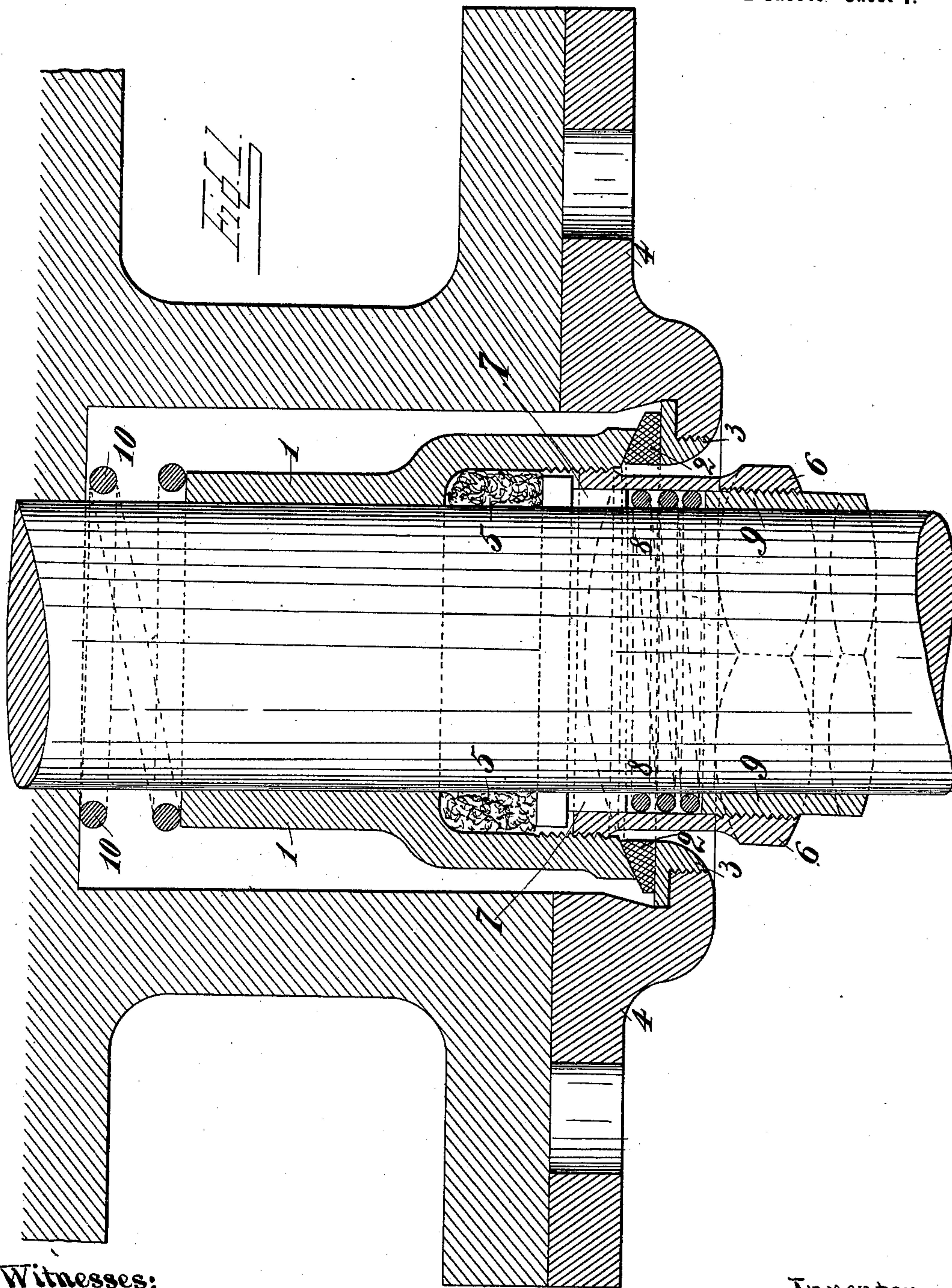
G. TESSIER.

ROCKING OR OSCILLATING STUFFING BOX.

(Application filed June 14, 1900.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses:

J. W. McMahon.
J. Buchler

Inventor,
Gaston Tessier
by H. Singer
Att'y.

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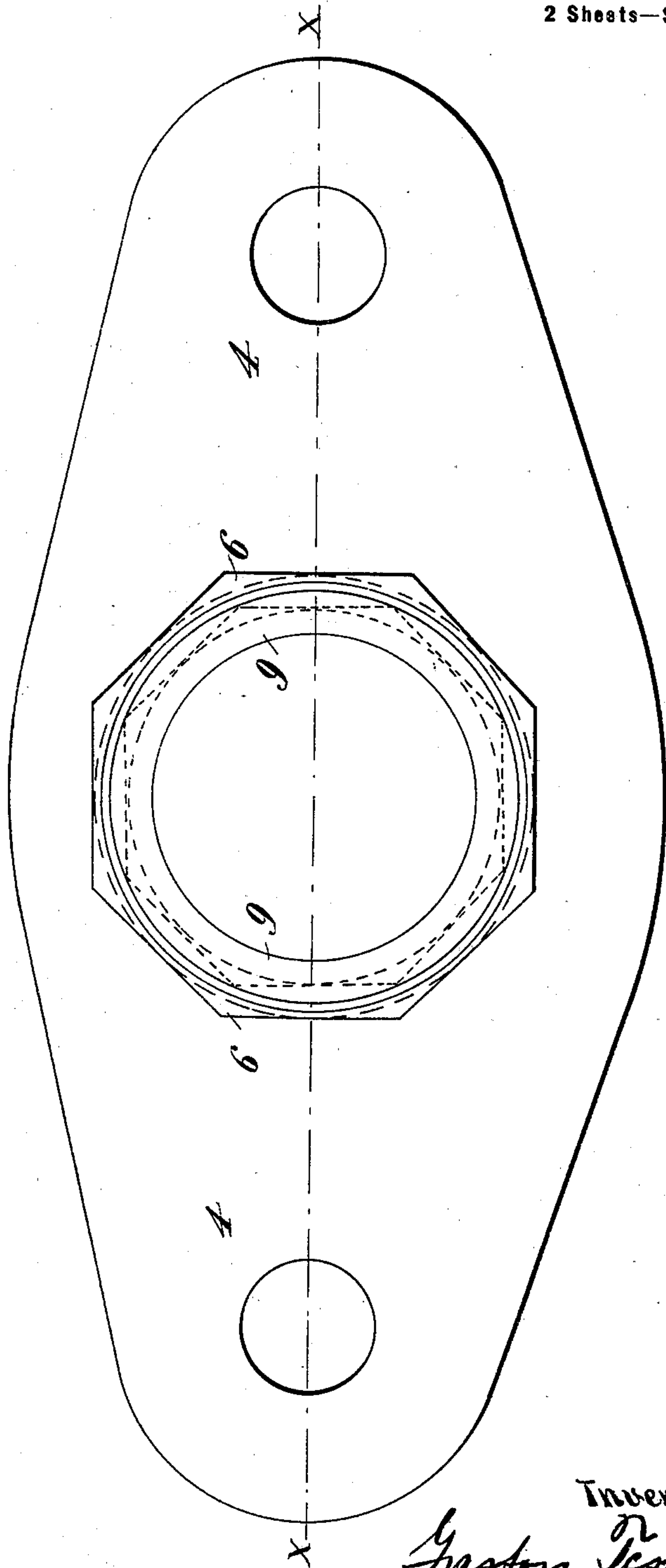
ROCKING OR OSCILLATING STUFFING BOX.

(Application filed June 14, 1900.)

(No Model.)

2 Sheets—Sheet 2.

Fig 2



Witnesses:
J. W. McMahon
J. Buehler.

Inventor,
Gaston Tessier
by B. Kings
Att'y.

UNITED STATES PATENT OFFICE.

GASTON TESSIER, OF NANTES, FRANCE.

ROCKING OR OSCILLATING STUFFING-BOX.

SPECIFICATION forming part of Letters Patent No. 671,643, dated April 9, 1901.

Application filed June 14, 1900. Serial No. 20,242. (No model.)

To all whom it may concern:

Be it known that I, GASTON TESSIER, a citizen of the Republic of France, and a resident of Nantes, France, have invented certain new and useful Improvements in Rocking or Oscillating Stuffing-Boxes, of which the following is a specification.

My present invention relates to stuffing-boxes, and has for its object to provide an oscillating or rocking stuffing-box constructed and combined as hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a vertical section on line X X of Fig. 2. Fig. 2 is a top plan view of the stuffing-box.

Referring by numerals to the drawings, 1 represents a casing or socket preferably made of bronze and adapted to oscillate by its lower suitably-seated edge on a swivel 2, having a spherical upper side and a flat under side. The flat portion of the swivel 2 is adapted to move on the bronze seating 3, screwed or otherwise secured to the flange 4, made of cast-iron. The contacting surfaces between the casing, the swivel, and the seating are suitably polished or made smooth in order to avoid any escape of steam. The joint is made steam-tight internally by means of suitable packing at 5, said packing being adapted to be progressively compressed by means of a threaded sleeve 6, screwed into the casing 1, as shown. The upper part of the casing 1 fits snugly to the piston; but in order to receive the packing and to set the bearing-base out from the piston the lower half is enlarged to form a chamber, terminating with the casing itself—that is, where it ends in its seat upon the swivel. This construction involves that the sleeve 6 shall engage with the casing above the swivel and facilitates assembling and dismantling of parts, since the line of separation is at the contact between the casing and swivel. The radius of the spherical surface

of the swivel 2 is made equal to one and two-thirds of the diameter of the piston-rod.

The apparatus may be provided with a device for automatically releasing the packing, said device comprising a movable follower 7, inserted into the sleeve 6 and pressed against the packing by means of a coiled spring 8, held within the sleeve 6 by means of a threaded sleeve 9, screwed into the latter. When the parts 7 8 9 are omitted, the sleeve 6 is formed so that its inner surface contacts with the surface of the piston-rod.

Pressing on the upper edge of the casing 1 is a suitable coil-spring 10, serving to hold said casing in close contact with the upper side of the swivel.

The swivel may be made of concave or convex shape.

The above-described construction may be applied to any steam-engines or any motors with considerable advantages.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

In a stuffing-box, the combination of the casing 1 fitting snugly by its upper half to the piston-rod, and enlarged into a chamber as to its lower half, the swivel 2 with which the extreme lower edge of the casing engages, the packing 5 in said chamber, the sleeve 6 engaging with the enlarged lower end of the casing above the swivel, the follower 7 fitting into the sleeve 6 and working in said chamber, the spring 8 inclosed by said sleeve, and the sleeve 9, threaded into the lower end of sleeve 6 and working against said spring.

In testimony whereof I have hereunto set my hand in presence of two witnesses.

GASTON TESSIER.

Witnesses:

V. FERRÉ,
BARTHA L. BRITAIN.