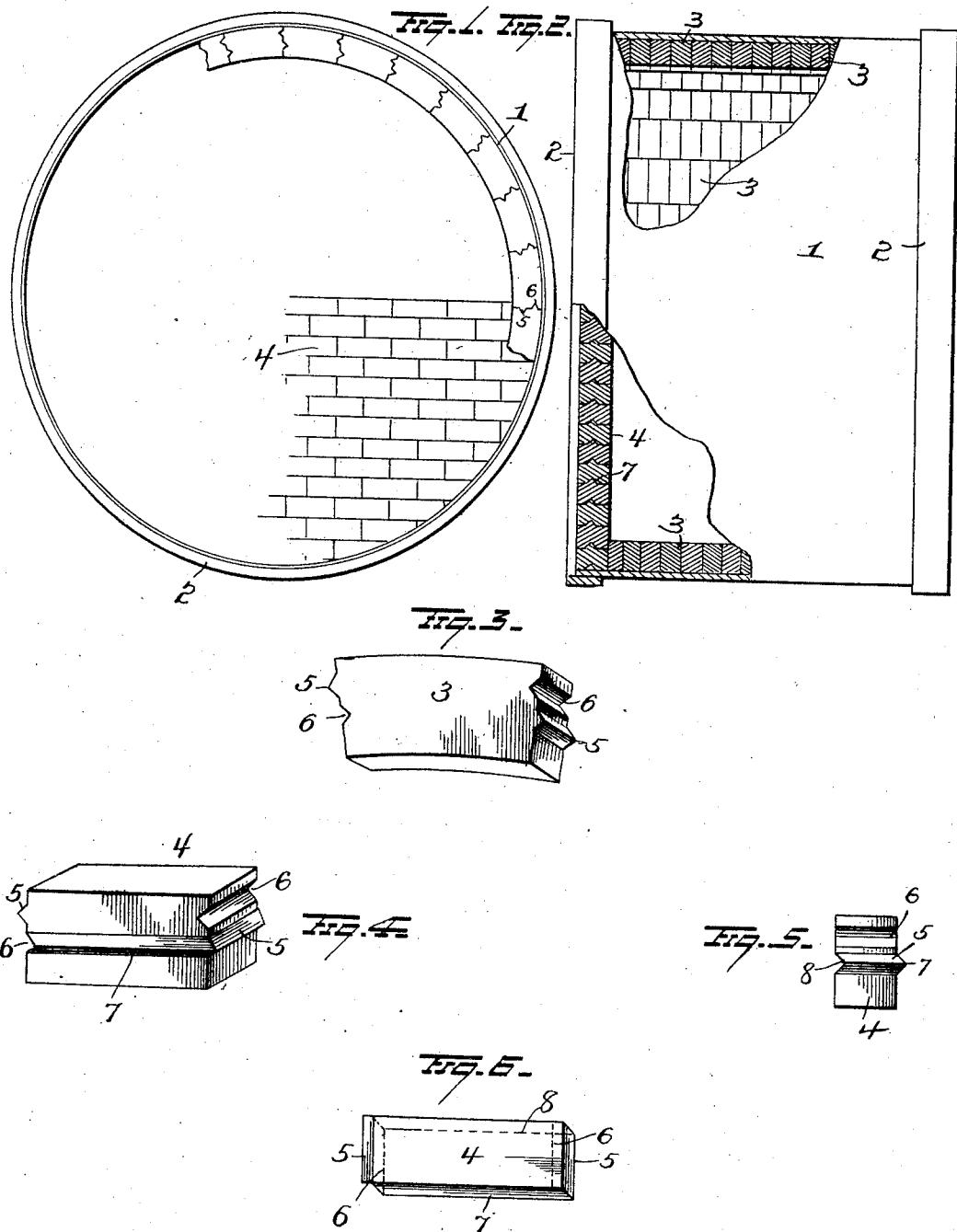


No. 830,589.

PATENTED SEPT. 11, 1906.

W. H. TAMS.
CYLINDER LINING.
APPLICATION FILED JUNE 20, 1905.



WITNESSES

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WILLIAM HENRY TAMS, OF TRENTON, NEW JERSEY.

CYLINDER-LINING.

No. 830,539.

Specification of Letters Patent.

Patented Sept. 11, 1906.

Application filed June 20, 1905. Serial No. 266,166.

To all whom it may concern:

Be it known that I, WILLIAM HENRY TAMS, a resident of Trenton, in the county of Mercer and State of New Jersey, have invented certain new and useful Improvements in Cylinder-Linings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in cylinder-linings, and more particularly to the construction and arrangement of brick linings, the object of the invention being to provide improved constructions of curved and straight bricks to conform to the interior shape of the cylinder body and ends, and so shape the bricks as to interlock and rest in edgewise position.

With these and other objects in view the invention consists in certain novel features of construction and combinations and arrangements of parts, as will be more fully herein-after described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a fragmentary view in cross-section through a cylinder, illustrating my improvements. Fig. 2 is a broken view, partly in longitudinal section. Fig. 3 is a perspective view of a curved brick, and Figs. 4, 5, and 6 are detail views of the straight end bricks.

1 represents a cylinder-body, and 2 the ends secured thereto. 3 represents my improved curved bricks for the body-lining, and 4 the bricks for the end lining, which will now be described in detail.

Bricks 3 are curved longitudinally in the same arc of a circle as the cylinder and are disposed edgewise and in circular formation around the interior thereof. Each brick is provided at both ends with beveled tongues 5 and beveled grooves 6, the tongues 5 to enter the grooves in the adjacent bricks and the grooves 6 to receive the tongues of the adjacent bricks, securely locking them together, as clearly shown in Fig. 1. In arranging the

bricks as shown in Fig. 2 they are so disposed that the bricks of each row have their longitudinal edges out of alinement with the 50 bricks of adjacent rows, and when all bricks are in the cylinder a perfectly-locked lining is secured.

The straight end bricks 4, which are laid edgewise and with the ends of each row out of alinement with adjacent rows, not only have the interlocking tongues and grooves 5 and 6 at their ends, but also have longitudinal tongues 7 at one side and longitudinal grooves 8 of similar shape at their opposite sides to 60 interlock and secure each and every brick against lateral displacement.

The exact shape of the tongues and grooves may of course be changed without departing from my invention, and hence I do not restrict myself to the precise details set forth, but consider myself at liberty to make such slight changes and alterations as fairly fall within the spirit and scope of my invention.

Having fully described my invention, what 70 I claim as new, and desire to secure by Letters Patent, is—

1. A lining-brick, comprising a solid body having a locking-tongue and a groove at each end spaced apart, said brick also having a 75 locking-tongue on one side and a groove in the other side.

2. A cylinder-lining comprising longitudinally-curved bricks arranged in circular formation, each having a tongue and a groove at 80 each end spaced apart, and straight lining-bricks for the cylinder ends, each of said straight bricks having a tongue and a groove at each end spaced apart and also having a tongue on one side and a groove in the other 85 side.

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

WM. HENRY TAMS.

Witnesses:

MAX WAGNER,
N. J. MURPHY.