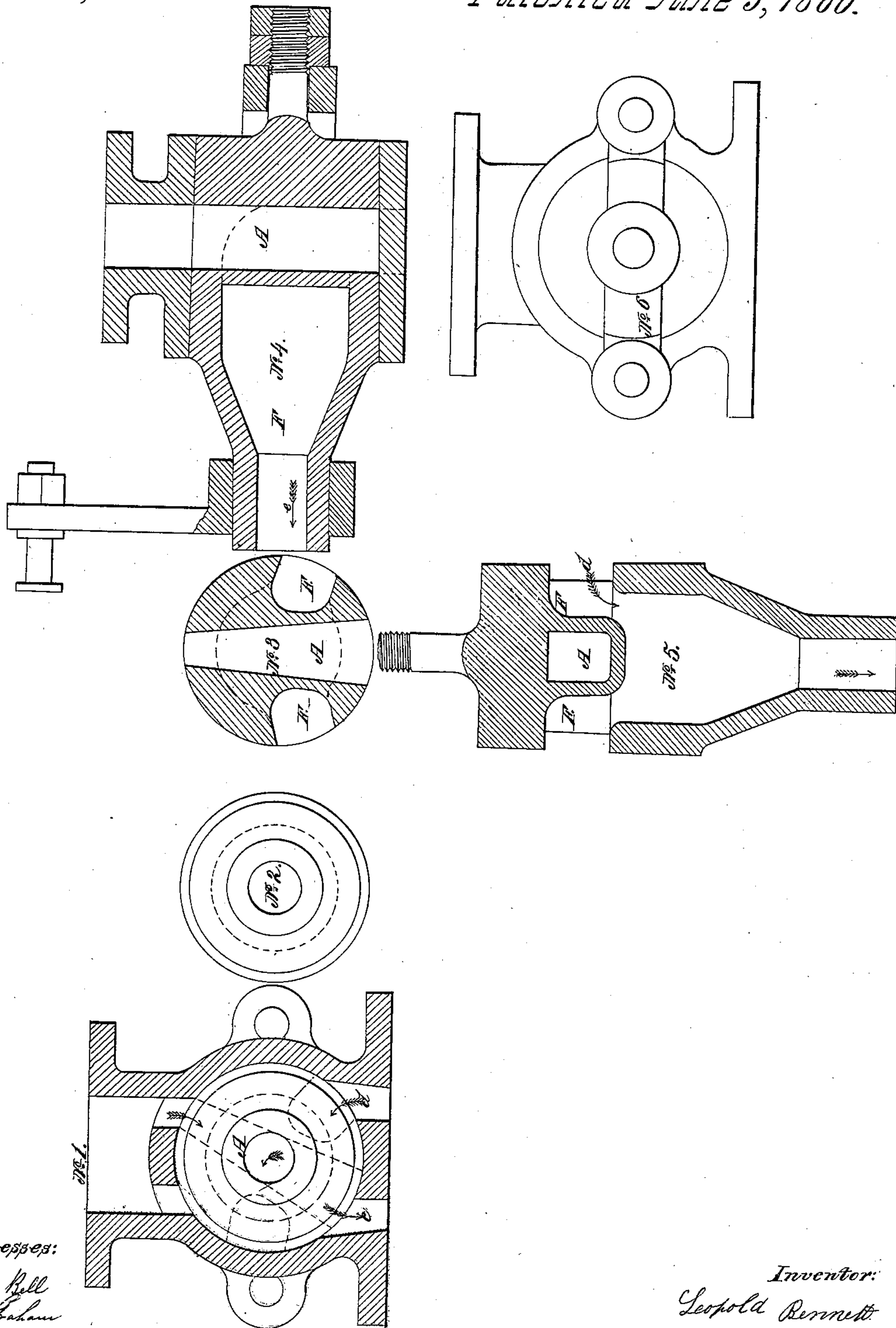


L. Bennett,
Rotary Steam Valve.

N^o 28,552.

Patented June 5, 1860.



Witnesses:
Chas. Bell
Wm. Graham

Inventor:
Leopold Bennett

UNITED STATES PATENT OFFICE.

LEOPOLD BENNETT, OF PITTSBURG, PENNSYLVANIA.

STEAM-VALVE.

Specification of Letters Patent No. 28,552, dated June 5, 1860.

To all whom it may concern:

Be it known that I, LEOPOLD BENNETT, of
Pittsburg, in the county of Allegheny, in
the State of Pennsylvania, have invented a
5 new and Improved Mode of Steam-Engine
Balance-Valve; and I do hereby declare that
the following is a full and exact description
thereof, reference being had to the accom-
panying drawings and to the letters of ref-
10 erence marked thereon.

The nature of my invention consists in
admitting the steam directly through the
valve, thus obviating the necessity of its
being forced into contact with the working
15 surfaces, and thereby avoiding friction.

My object is to relieve the steam valve as
far as possible from unnecessary friction.

Passage marked "A" in Nos. 1, 3, 4, and 5,
indicates the steam passage through the
20 valve; and the direction of the entering
steam is indicated by the arrows. Arrow
"B" shows the steam entering the valve
from the steam pipe, or throttle valve. Ar-
row "C" shows the steam entering the
25 passage of the cylinder at one end, while "d"
shows it escaping from the other end; and
"e" shows its exit through the valve. The
direction of the exhausting steam is also

shown at "d" in the section of the valve No.
5, and at "e" in Nos. 4 and 5.

No. 1 is an end view of a section of the
valve chamber, showing the steam passages,
with an end view of the valve in its place.
No. 2, is an end view of the valve; No. 3, a
section of the valve through the apertures. 35
"F" and "F" are the exhaust apertures.
No. 4 is an upright longitudinal section of

The valve can be worked by any ordinary
plan of the valve; and No. 6, is an end view
of the valve chamber.

The valve can be worked by any ordinary
eccentric or cam, or any of the usual ap-
40 pliances for working slide or puppet valves.

I claim as my invention, and desire to se-
cure by Letters Patent—

The construction of a valve oscillating or
working in the same manner as a cock, with
the steam passage transversely through it,
and the exhaust through it in the direction
of its length, as in the manner hereinbefore 50
described by reference and drawings.

LEOPOLD BENNETT.

Witnesses:

JNO. P. GLASS,
JOSEPH BELL.