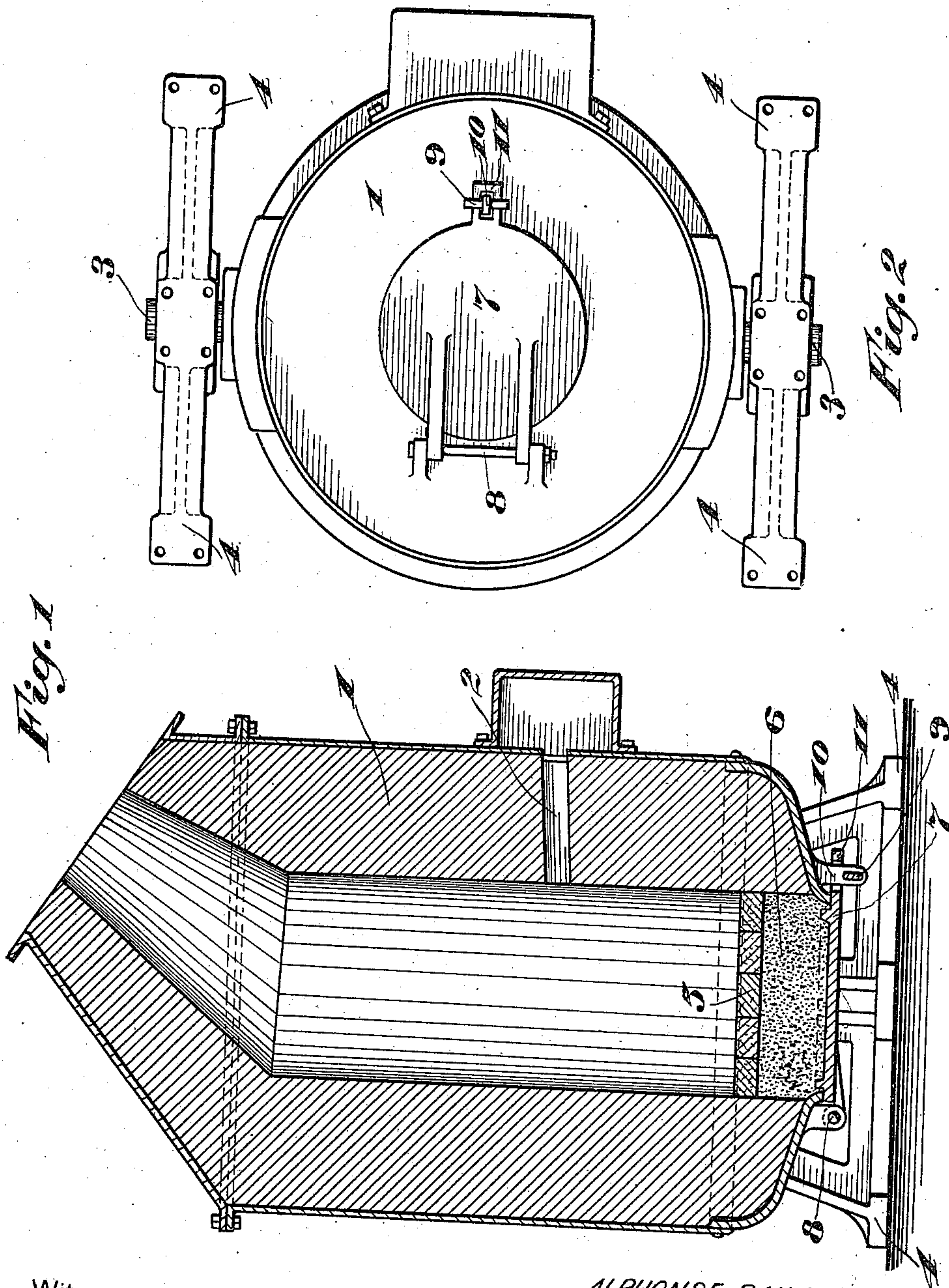


A. BAILLOT.
LATERAL BLAST BESSEMER CONVERTER.
APPLICATION FILED JAN. 24, 1910.

989,890.

Patented Apr. 18, 1911.



Witnesses:

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ALPHONSE BAILLOT, OF MONTREAL, QUEBEC, CANADA.

LATERAL-BLAST BESSEMER CONVERTER.

989,890.

Specification of Letters Patent.

Patented Apr. 18, 1911.

Application filed January 24, 1910. Serial No. 539,838.

To all whom it may concern:

Be it known that I, ALPHONSE BAILLOT, a subject of the King of the Belgians, residing in the city and district of Montreal, in the Province of Quebec, Canada, have invented certain new and useful Improvements in Lateral-Blast Bessemer Converters; and I do hereby declare that the following is 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.

The invention to be hereinafter described relates to Bessemer converters, and more particularly to lateral blast Bessemer converters.

Broadly speaking, it comprises a converter body provided with a lateral blast opening, a frangible plug closure for the bottom of the converter body, a plate or cover hinged to the converter body and adapted to be swung to position to support the plug, and means for holding the plate in operative position.

The main object of the invention is to provide a simple lateral blast Bessemer converter, in which the interior of the converter may be readily and quickly repaired and cleaned.

In order to more clearly disclose the construction, operation and use of the invention, reference should be had to the accompanying drawings forming part of the present application.

Throughout the several figures of the drawings, like reference characters designate the same parts.

In the drawings: Figure 1 is a central vertical section through the converter; and, Fig. 2 is a bottom plan view of the converter.

Referring to the drawings in detail, 1 indicates the body of the converter, which is open at both ends and is provided with a lateral blast passage 2. For convenience, this body, in the preferred form, is provided with trunnions 3, journaled in suitable standards or supports 4, so that the converter body may be swung to the desired angle.

When the converter is to be charged for operation, a layer of highly refractory bricks or blocks 5 will be cemented together across the interior of the converter near its lower end, forming a branch plug or partition:

Next, the space below the plug will be filled with sand 6, or like material. Then a cover plate 7, pivoted at 8, will be swung to operative position and held there by a pin 9, which may be removably inserted through a perforated lug 10, in such position as to lie beneath an ear 11 projecting from the bottom plate 7 and so support the plate. By mounting the furnace body so that it may be tipped or turned to practically any desired angle, it is possible to turn it to a substantially horizontal position for placing the layer of bricks 5. When the bricks have become solidly set and form a wall across the interior of the converter, the converter body may be inverted and the loose sand 6 filled in. Then the cover plate 7 may be turned down on top of the loose sand and secured in position by insertion of the pin 9. The converter body may then be turned back to upright position and charged for operating.

Whenever it is desired to clean or repair the interior of the converter body, the pin 9 will be withdrawn to allow the plate 7 to drop. As the plate drops, the loose sand will fall out and the layer of bricks 5 may then easily be broken and removed.

It is thought that the operation and use of the invention will be clear from the preceding detailed description.

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

1. A lateral blast Bessemer converter furnace comprising, a pivoted furnace-body, an imperforate frangible plug closure extending across the interior thereof near the larger end, a refractory filling in said end outside of said plug, a hinged cover-plate which closes said end and a removable device for locking said cover-plate in its closed position.

2. A furnace comprising a furnace body, a frangible plug closing the bottom end thereof, a filling of fine material in contact with the lower face of said plug and a cover-plate held removably in contact with this filling.

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

ALPHONSE BAILLOT.

Witnesses:

L. A. GAUOIN,
W. S. BABCOCK.