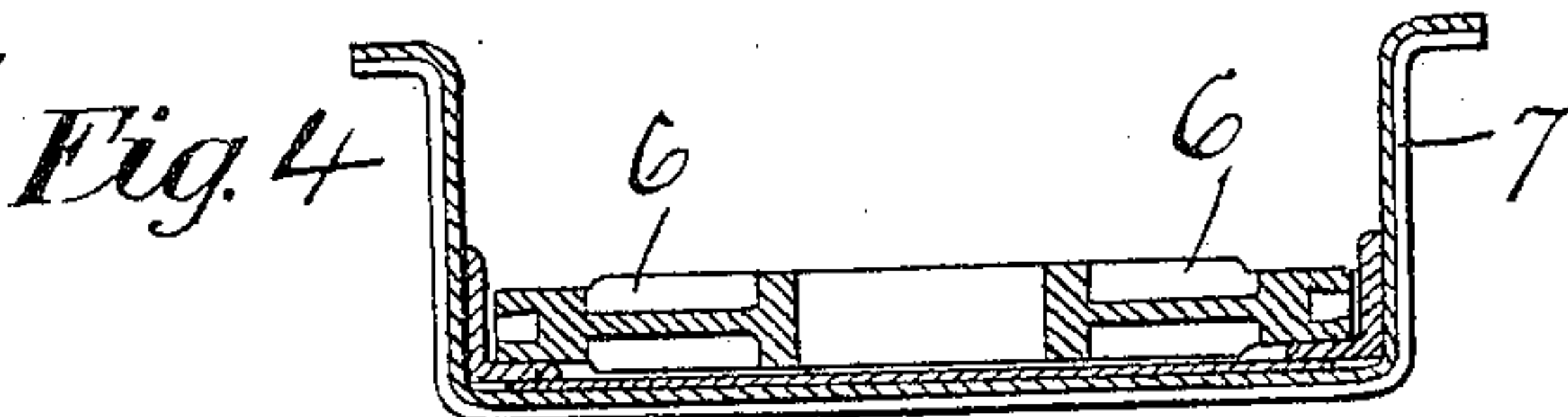
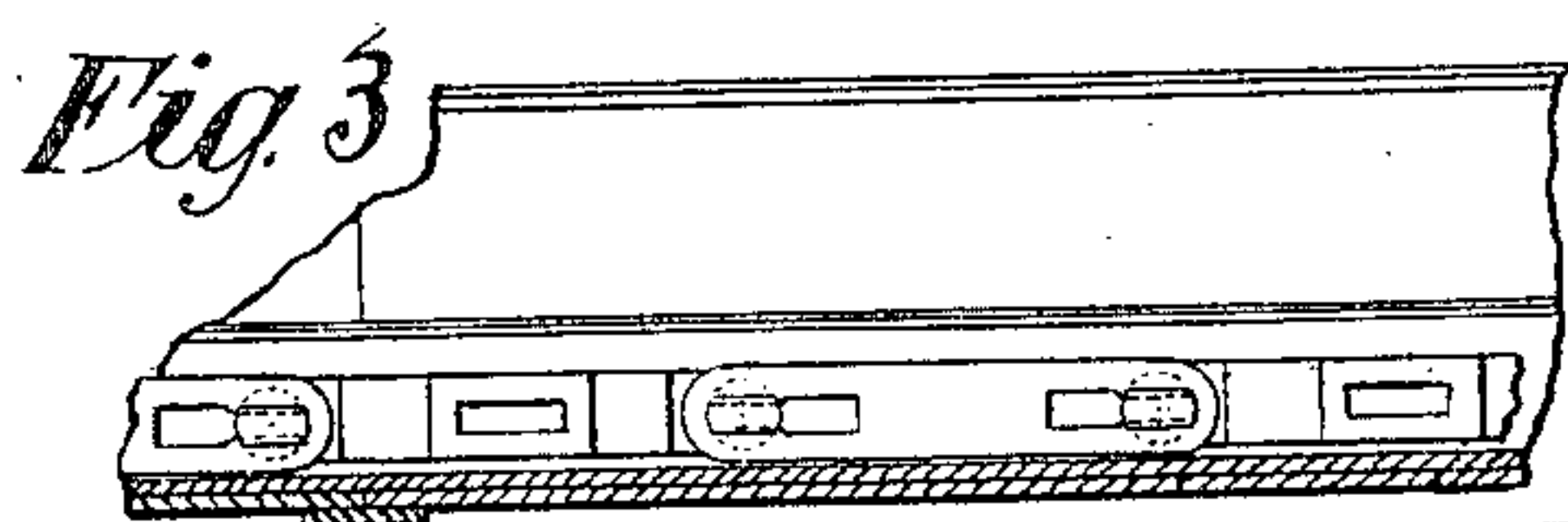
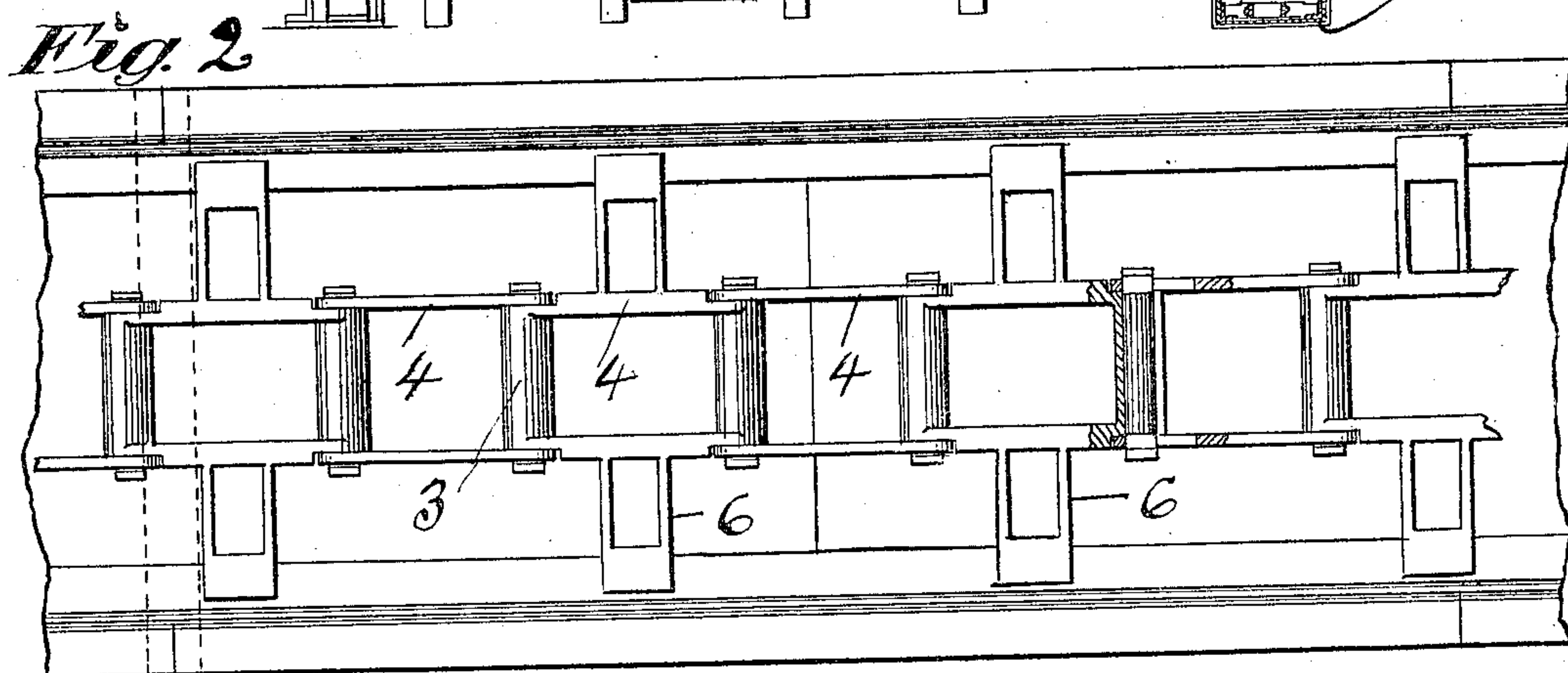
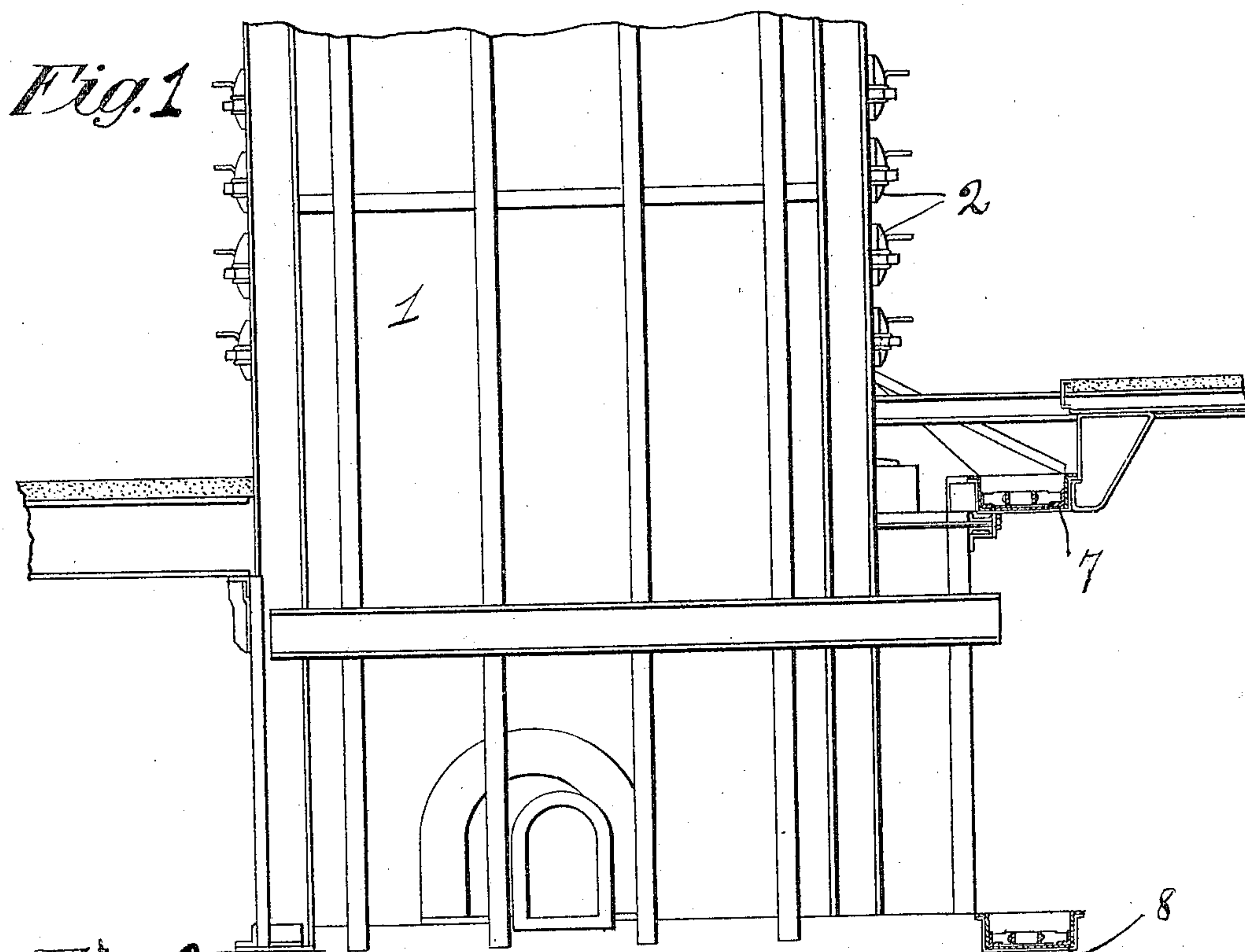


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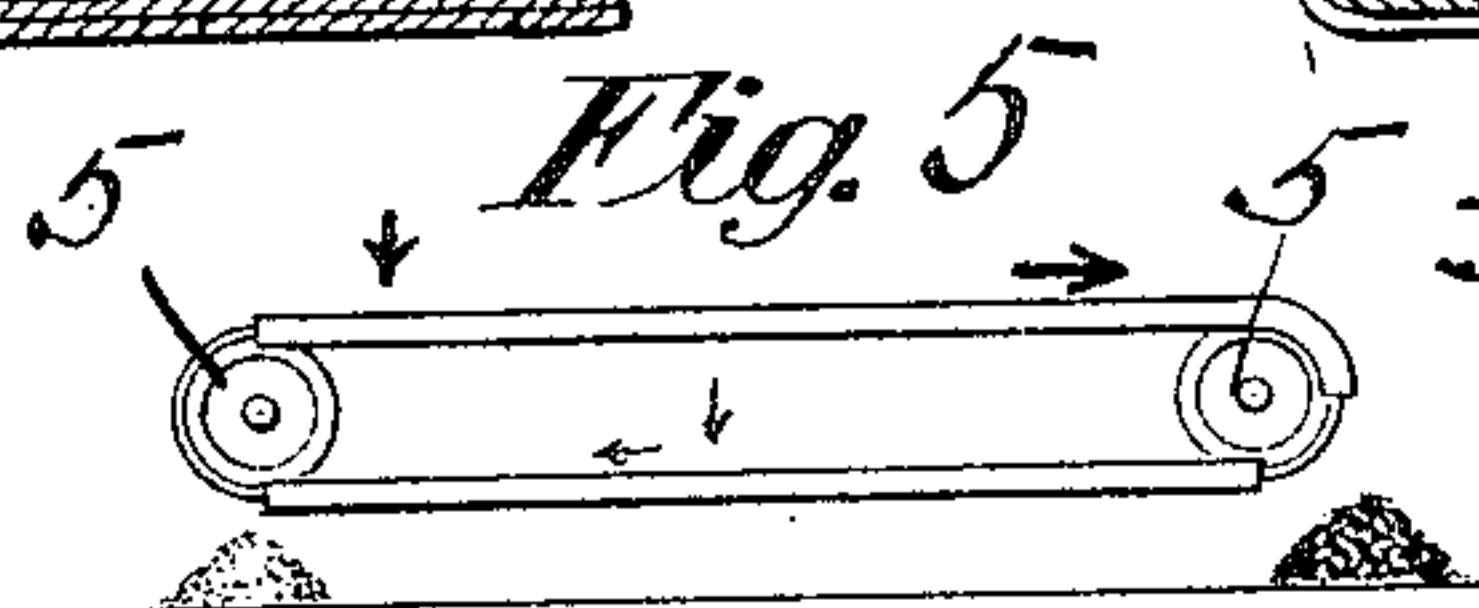
PATENTED FEB. 20, 1906.

H. A. CARPENTER.  
CONVEYER FOR COKE RETORTS.

APPLICATION FILED FEB. 24, 1903.



Witnesses:  
Geo. B. Rowley  
C. Williams



Inventor;  
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His Attorney.



# UNITED STATES PATENT OFFICE.

HENRY A. CARPENTER, OF SEWICKLEY, PENNSYLVANIA, ASSIGNOR TO  
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JERSEY, A CORPORATION OF NEW JERSEY.

## CONVEYER FOR COKE-RETORTS.

No. 812,977.

Specification of Letters Patent.

Patented Feb. 20, 1906.

Application filed February 24, 1903. Serial No. 144,764.

*To all whom it may concern:*

Be it known that I, HENRY A. CARPENTER, a citizen of the United States, residing at Sewickley, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Conveyers for Coke-Retorts, of which improvement the following is a specification.

My invention relates to improvements in apparatus for handling the coke product of gas-retorts and simultaneously conveying or handling the clinkers, ash, and waste products from the furnace of such retorts.

The object of my invention is to use, in combination with a bench of retorts, an endless conveyer, the upper trough of which is adapted to receive the coke product of the retort, which the conveyer carries and discharges into some suitable receptacle when traveling in one direction, and the lower trough of the conveyer adapted to receive the clinkers, ash, and waste products of the furnace, which the conveyer when traveling in an opposite direction carries and discharges into some suitable receptacle opposite that which receives the coke product.

In the accompanying drawings, Figure 1 indicates a front elevation of a bench of gas-retorts and my improved conveying apparatus combined therewith. Fig. 2 is a plan view of the conveyer. Fig. 3 is a sectional elevation of a part of the conveyer. Fig. 4 is a transverse section of the same. Fig. 5 is an end elevation of the conveyer and drums.

Referring to said drawings, 1 is a bench of gas-retorts the ends of which are open, so as to admit of their being charged with gas-coal and the ready discharge of the coke product. The ends of said retorts are adapted to be closed by doors 2.

3 is an endless conveyer, which comprises a series of links 4, conjoined and adapted to operate over drums 5 5. The said links are provided with laterally-projecting members or sweeps 6, which are integral therewith and which are adapted to move or travel with the conveyer along the bottom of the troughs 7 and 8, which extend longitudinally with relation to the bench of retorts. The upper one of said troughs 7 is arranged upon a horizontal plane parallel with the lower retort and with the top of the drums over which the conveyers travel and the lower trough upon

a plane with the lower side of said drums and with the discharge-opening of the furnace beneath the retorts, whereby the coke product of the retorts may be discharged upon and into the upper trough and carried by the sweeps of the conveyer toward one end of the retorts and dumped or discharged at such point, as shown, or into any suitable receptacle located there for its reception, and the waste product of the furnace may be discharged upon and into the lower trough and carried by the sweeps of the conveyer, which returns through said trough to a point opposite to that which the coke product was conveyed.

I claim as my invention and desire to secure by Letters Patent—

1. The combination with a bench of gas-retorts and the furnace therefor, said retorts and said furnace having independent means for discharge, of an endless conveyer having one stretch thereof positioned adjacent the discharge of the coke product and the other stretch thereof positioned adjacent the discharge of the waste products, said stretches of the conveyer being adapted to simultaneously convey away and dump in opposite directions from the places of discharge the coke product and the waste products.

2. The combination with a bench of gas-retorts and the furnace therefor, said retorts and said furnace having independent means for discharge of their products, of a conveyer comprising a single endless carrier having one stretch thereof positioned adjacent the discharge of the coke product, and the other stretch thereof positioned adjacent the discharge of the waste products, and troughs in which the respective stretches of the endless conveyer travel, said stretches of the conveyer being adapted to simultaneously convey away and dump in opposite directions from the places of discharge of the coke product and the waste products by the utilization of the uppermost parts of said stretches.

In testimony whereof I have hereunto signed my name in the presence of two subscribing witnesses.

HENRY A. CARPENTER.

In presence of—

CLARENCE A. WILLIAMS,  
JOHN H. RONEY.