

(No Model.)

2 Sheets—Sheet 1.

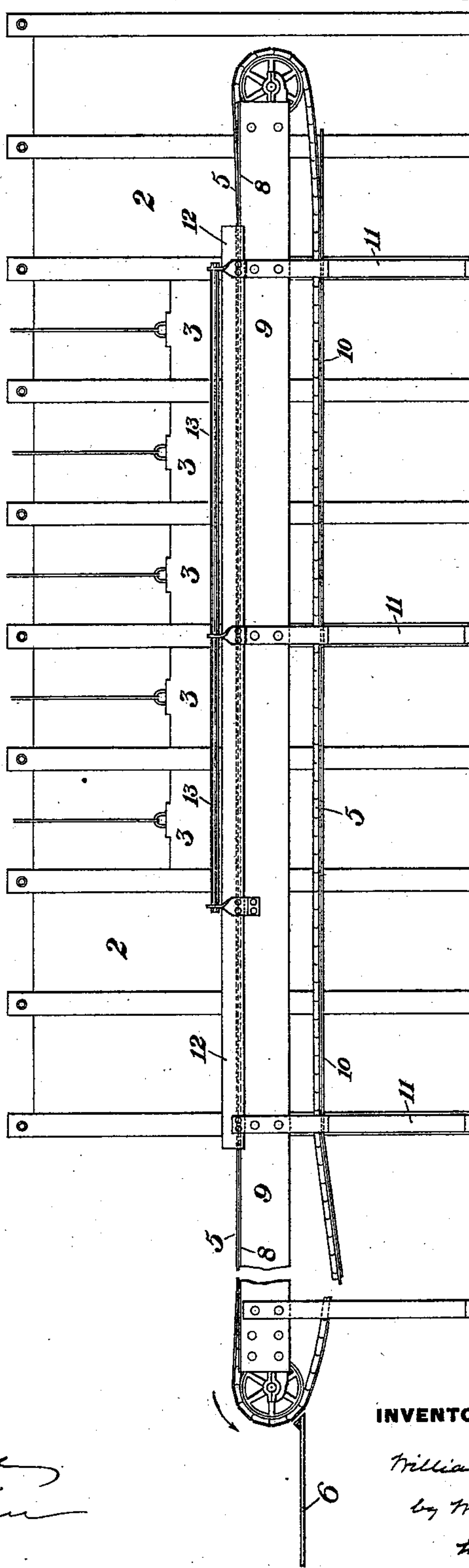
W. D. YOUNG.

MEANS FOR TRANSFERRING METAL FROM FURNACES.

No. 539,563.

Patented May 21, 1895.

Fig. 1.



WITNESSES

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INVENTOR

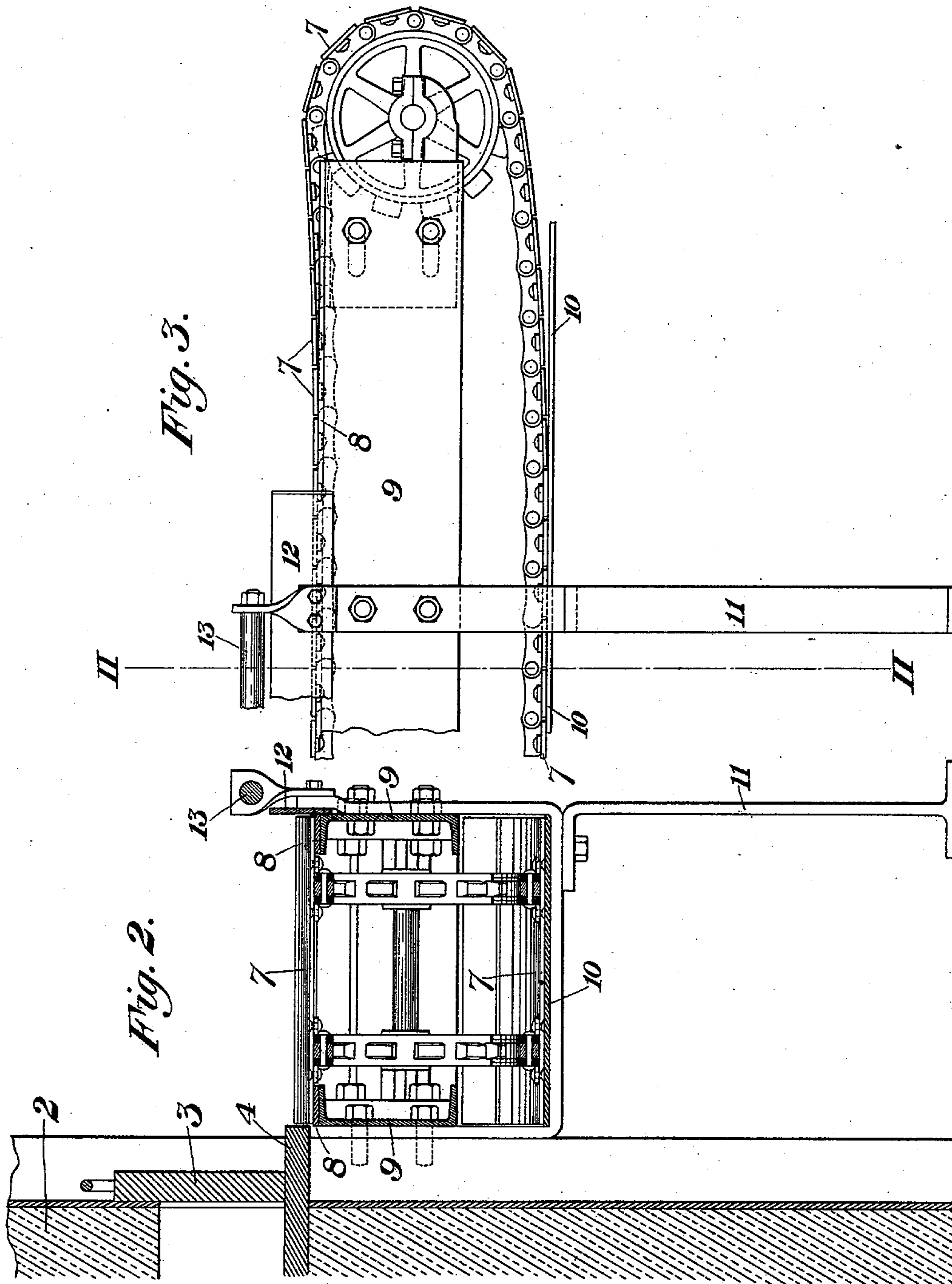
*William D. Young*  
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*by M. B. Caldwell & Son*  
*his attorneys*



# UNITED STATES PATENT OFFICE.

WILLIAM D. YOUNG, OF PITTSBURG, PENNSYLVANIA, ASSIGNOR TO THE  
SHOENBERGER STEEL COMPANY, OF SAME PLACE.

## MEANS FOR TRANSFERRING METAL FROM FURNACES.

SPECIFICATION forming part of Letters Patent No. 539,563, dated May 21, 1895.

Application filed July 18, 1894. Serial No. 517,945. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM D. YOUNG, of  
Pittsburg, in the county of Allegheny and  
State of Pennsylvania, have invented a new  
and useful Improvement in Means for Trans-  
ferring Metal from Furnaces, of which the  
following is a full, clear, and exact descrip-  
tion, reference being had to the accompanying  
drawings, forming part of this specification,  
in which—

Figure 1 is a side elevation of a furnace,  
showing the relation of the traveling carrier  
thereto. Fig. 2 is a cross-section through the  
furnace and carriers, and Fig. 3 is an enlarged  
detail of a portion of the conveyer.

My invention relates to the transferring of  
metal from a heating furnace to a point where  
it is further acted upon, and more particularly  
to the conveying of blanks from a reheating  
furnace to mechanism for further action  
thereon.

In the drawings, 2 represents a reheating or  
blank furnace, having a horizontal series of  
outlet doors 3 along one side of the same,  
through which the heated blanks are with-  
drawn. The doors 3 rest upon projecting  
ledges 4, and in front of the doors and just  
below the level thereof extends the endless  
conveyer 5, upon which the blanks fall when  
drawn through the outlet openings. The con-  
veyer carries the blanks to and deposits them  
upon a table 6, which is in front of a pair of  
rolls arranged to turn in the edge of the  
blanks and remove the scale therefrom.

The carrying-plates 7 of the conveyer ex-  
tend laterally beyond the carrying chains and  
slide upon wearing-plates 8 secured to chan-  
nel-beams 9 supported upon each side of the  
chains along the upper path of their travel,  
while on their lower path the plates move  
over a floor 10.

The standards 11, which support the floor  
and outer channel beam, carry at their upper  
ends a flat vertical plate 12, which forms an  
outer inclosing strip for the conveyer and

prevents the blank from being drawn out too  
far and dropping over the outer edge thereof.

Above the plate 12 is supported a horizon-  
tal roller 13, which forms a rest for the rake  
of the operator in drawing out the blanks,  
and extends in front of the various outlet  
doors.

The operation is as follows: As the blanks  
become heated to a suitable degree, the oper-  
ator draws them out through the outlet open-  
ings, and dropping them upon the conveyer  
they are taken at once without loss of time  
or appreciable lowering of temperature to the  
table 6 and dropped thereon.

The advantages of the invention result  
from the automatic action of the conveyer  
and its peculiar location relatively to the exit  
openings, so that no handling of the metal is  
necessary.

Many changes may be made in the construc-  
tion and arrangement of the conveyer and  
other parts without departing from my inven-  
tion; since

What I claim is—

1. The combination with a blank-heating  
furnace having a horizontal series of exit  
openings, of a continuously-moving conveyer  
substantially flush with the bottom of said  
openings, and a retaining plate at the outer  
edge of the conveyer; substantially as de-  
scribed.

2. The combination with a blank-heating  
furnace having a horizontal series of exit  
openings, of a conveyer passing longitudi-  
nally beneath and adjacent to said openings  
and arranged to receive the blanks drawn  
from said openings, and a rest for the oper-  
ator's rod above the conveyer; substantially  
as described.

In testimony whereof I have hereunto set  
my hand.

WILLIAM D. YOUNG.

Witnesses:

W. B. CORWIN,  
C. BYRNES.