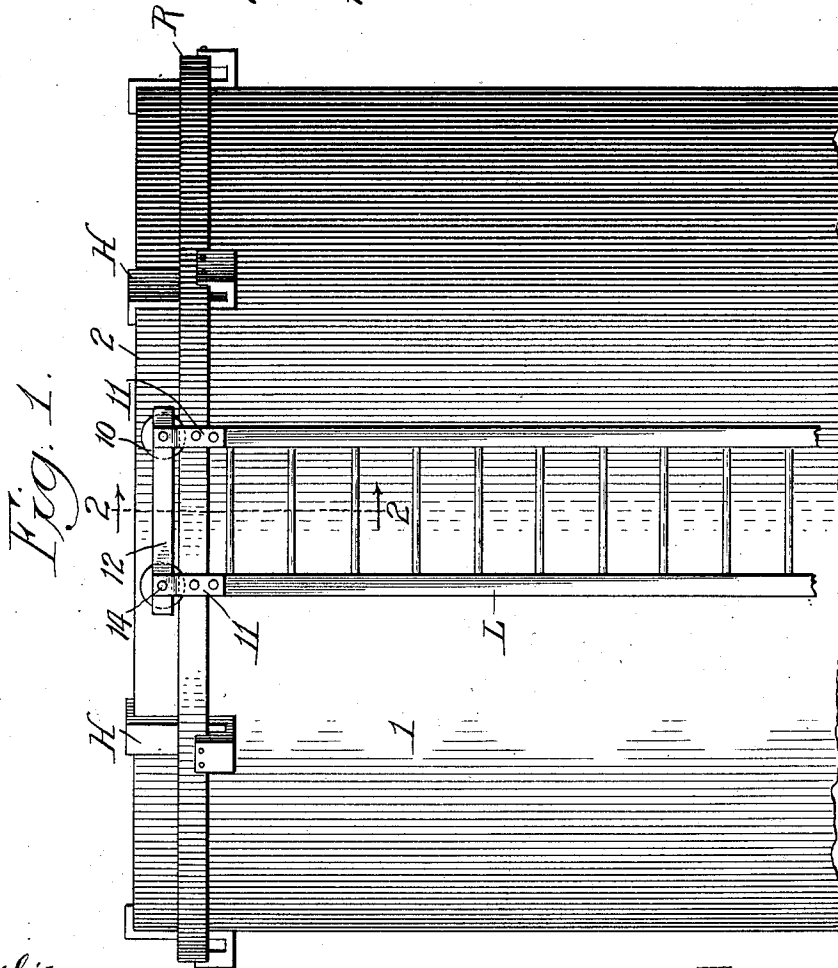


1,049,804.

[illegible]

Inventor:
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by William R. Lane Atty.

UNITED STATES PATENT OFFICE.

LEANDER C. BRICKER, OF SEATTLE, WASHINGTON.

SILO LADDER ATTACHMENT.

1,049,804.

Specification of Letters Patent.

Patented Jan. 7, 1913.

Application filed August 9, 1911. Serial No. 643,184.

To all whom it may concern:

Be it known that I, LEANDER C. BRICKER, a citizen of the United States, residing at Seattle, in the county of King and State of Washington, have invented a new and useful Improvement in Silo Ladder Attachments, of which the following is a specification.

My invention relates to silos and has for its object the provision of means for suspending a ladder from the upper edge of the silo.

In its preferred embodiment, my invention comprises a plurality of hangers attached to the silo at the upper edge thereof, as by being hooked over the edge, supporting a rail which runs around the outside of the silo and is adapted to receive rollers attached to a ladder, whereby the same is held suspended from the silo and may be readily shifted around the silo to the desired position.

In the accompanying drawings Figure 1 is an elevation of the upper portion of a silo having my invention applied thereto; Fig. 2 is an enlarged cross-sectional view on line 2—2 of Fig. 1.

The body of the silo, indicated as a whole by 1, may be of any approved construction. These silos are generally built up of vertical staves held together by strong hoops and are circular in contour. Over the upper edge 2 of the silo are hooked a plurality of hangers H which support a rail R adapted to hold the ladder L in suspended position. Each hanger comprises a main vertical member 3 which engages the front of the silo, a rearwardly extending horizontal member 4 which engages the upper edge of the silo, a downwardly extending rear member 5 engaging the inner side of the silo, an upright member 6 connected to the lower end of the main vertical member 3 and spaced therefrom by the horizontal connection 7. The upright members 6 of the hangers are each provided with a slot 8 in which the rail R is secured by means of suitable fastening devices as bolts or rivets 9. The rail is held edgewise in the slot 8 and is adapted to receive the flanged rollers 10 carried by the

ladder L. These rollers may be attached to the ladder in any suitable manner. For the sake of illustration I have shown the ladder provided at its upper ends with the brackets 11 which are connected by the transverse bars 12 and 13 mounted on studs or bolts 14. The bolts 14 act as pivots for the rollers 10.

It will be seen from the above that I have provided simple and easily applied means for supporting the rail from the upper edge of a silo to hold the ladder in suspended position.

The hangers H may at their rear ends terminate in hook portions 15 for receiving a rod or wire 16 which connects the hangers together at that point. Suitable means is provided for tightening this rod or wire. In this way the hangers are reinforced and the strain on the hangers, due to the weight of the ladder at the front ends, is relieved or taken up at the connected rear ends.

Having thus described my invention what I claim as new and desire to secure by Letters Patent of the United States is:

1. In combination, a cylindrical shaped silo, a plurality of hangers, each hanger consisting of a main vertical member provided at its upper end with a rearwardly extending hook portion for engaging the silo and at its lower point with a forwardly extending bracket portion, a rail around said silo supported by said bracket portions and designed as a track for a traveling member, a reinforcing rod or wire hooked over the rearwardly extending hook portions to reinforce said silo at its upper end, and a traveling member on said track.

2. In combination, a cylindrical shaped silo, a rail around said silo, means for supporting said rail in position near the top of and spaced apart from said silo, said means comprising a plurality of hangers, each hanger consisting of a main vertical member provided at its upper end with a rearwardly extending hook portion for engaging the interior of the silo, and at its lower point with a forwardly extending bracket portion, said forwardly extending portion being recessed to receive said rail, a

reinforcing rod or wire hooked over the rearwardly extending hook portions for connecting the rearwardly extending portions of the hangers to reinforce said silo at its upper end against the strain caused by the ladder when in use, a slightly curved frame provided with a pair of flanged wheels designed to travel on said rail and a ladder

suspended from said frame, substantially as and for the purpose described.

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In witness whereof, I hereunto subscribe my name this third day of June A. D. 1911.

LEANDER C. BRICKER.

Witnesses:

CARMEN E. BAILEY,
CLARENCE J. LOFTER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."