July 29, 1924. 1,503,388

L. TABOR

SILO

Filed June 16, 1923

Fig. 3.

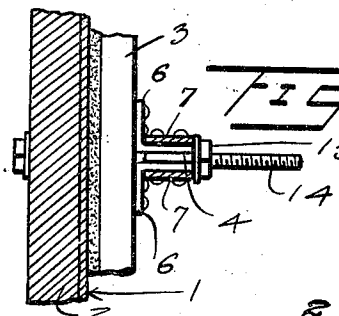


Fig. 2.

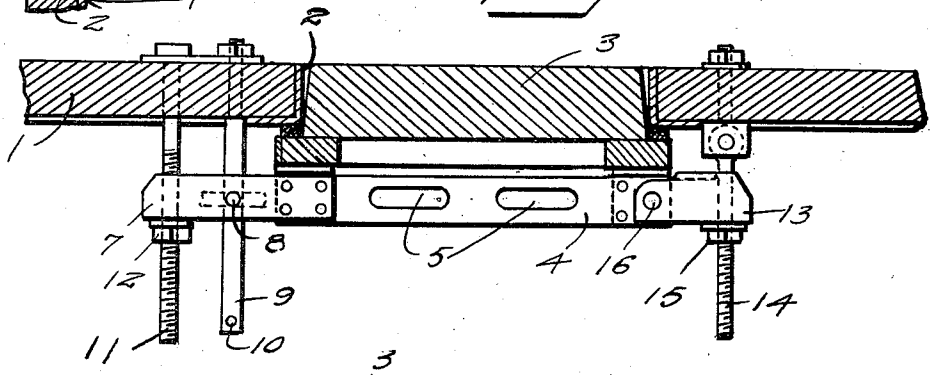


Fig. 1.

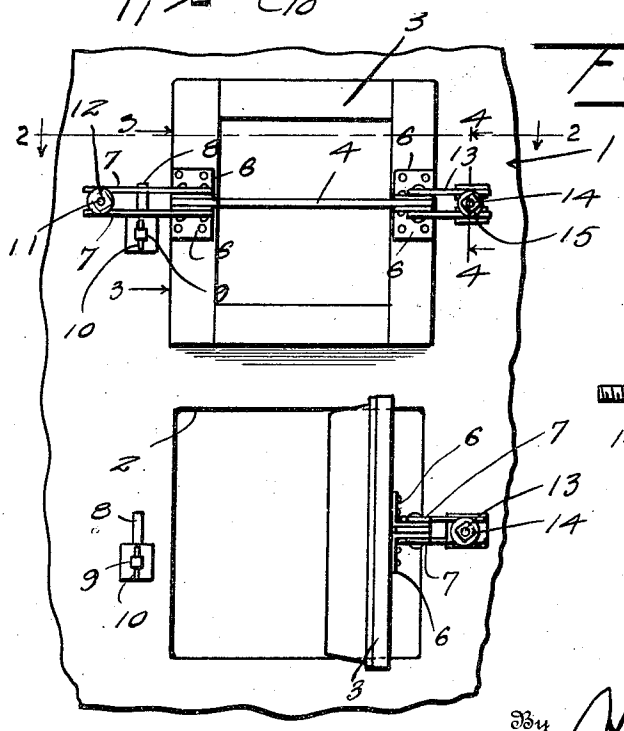
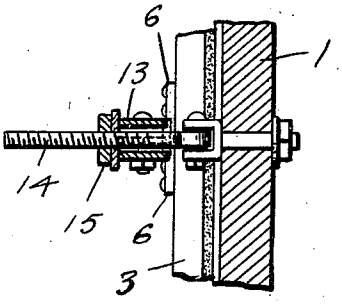


Fig. 4.



Inventor

L. Tabor.

By

Attorney

Patented July 29, 1924. 1,503,388

UNITED STATES PATENT OFFICE.

LURI TABOR, OF DETROIT, MICHIGAN.

SILO.

Application filed June 16, 1923. Serial No. 645,785.

To all whom it may concern:

Be it known that I, LURI TABOR, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in a Silo; and I do hereby declare the following to be 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 relates to a silo, and more particularly to the door and fixtures cooperating with the door, whereby the latter is hingedly connected to the silo to admit of the door swinging clear of the door opening to admit of ready access to the interior of the silo, and whereby, when the door is closed, it may be tightened and drawn into close contact with the sides of the door opening to insure a close fit.

Other objects and advantages will be apparent and suggest themselves as the nature of the invention is understood.

While the drawings illustrate an embodiment of the invention it is to be understood that in adapting the same to meet different conditions and requirements, various changes in the form, proportion and minor details of construction may be resorted to without departing from the nature of the invention.

Referring to the accompanying drawings forming a part of the application,

Figure 1 is a front view of a portion of a silo illustrative of the invention, showing one door closed and the other door swung into open position,

Figure 2 is a horizontal section on the line 2—2 of Figure 1,

Figure 3 is a vertical section on the line 3—3 of Figure 1, showing the parts on a larger scale, and

Figure 4 is a vertical section on the line 4—4 of Figure 1, the parts appearing on a larger scale.

Corresponding and like parts are referred to in the following description and designated in the several views of the drawings by like reference characters.

The numeral 1 designates the body of the silo which is provided in a side with a plurality of openings 2 which are adapted to be closed by doors 3. The inner face of each of the doors 3 comes about flush with the inner side of the silo to prevent projecting parts which would materially interfere with the settling of the ensilage. Each of the doors 3 is provided upon its outer side with a crossbar 4 in which are formed openings 5 constituting hand holes. The crossbars 4 constitute rungs and reinforcing and fastening means. Angle irons 6 are disposed at opposite sides of each of the crossbars 4 and bridgingly connect the same to the door 3. Short parallel straps 7 are riveted or otherwise secured to opposite sides of an end portion of each of the crossbars 4 and are apertured to receive a pivot 8 which is slidably mounted upon a pin 9 or like part projecting outwardly from the body of the silo at one side of the door opening. A stop 10 at the outer end of the pin 9 limits the outward movement of the pivot 8. A threaded pin 11 also projects outwardly from the body 1 of the silo and is adapted to pass between the outer end of the straps 7. A nut 12 mounted upon the threaded pin 11 provides means whereby the door may be pressed inwardly when closed. A member 13 pivotally connected to the opposite end of the crossbar 4, cooperates with a threaded pin 14 and nut 15 mounted thereon, whereby the opposite portion of the door may be pressed inwardly. The member 13 is substantially of U-form in cross section and its elements are spaced apart a distance to receive between them the crossbar 4 and threaded pin 14. A pivot 16 connects the member 13 to the crossbar 4.

When the door is in closed position, the threaded pins 11 and 14 pass between the respective parts 7 and 13 and the nuts mounted thereon engage such parts so that the door may be pressed inwardly to secure a close joint with the door opening.

What is claimed is:

1. A silo having an opening in a side thereof, a door for closing said opening, a crossbar secured to the outer side of the door, spaced straps secured to an end portion of the crossbar, means for pivotally connecting said straps to the body of the silo at one side of the door opening, a member pivotally connected to the opposite end of the crossbar, and means mounted upon the silo and engaging the pivoted member and coacting therewith to hold the door in closed position.

2. A silo having a door opening, threaded pins at opposite sides of the door opening extending outwardly from the body of the silo, a door for closing said opening, a crossbar secured to the outer side of the door,

spaced straps secured to an end of the crossbar and adapted to coact with one of the threaded pins, means pivotally connecting said straps with the body of the silo, and a member pivoted to the opposite end of the crossbar and adapted to coact with the other threaded pin.

3. A silo having an opening in a side thereof, a door for closing said opening, a crossbar secured to the outer side of the door, spaced straps secured to an end of the crossbar, a pin projecting outwardly from the body of the silo, a pivot mounted upon said pin and engaging the said straps, a member pivoted to the opposite end of the crossbar, threaded pins projecting outwardly from the body of the silo and disposed upon opposite sides of the door opening, the one passing between said spaced straps and the other passing between elements of the pivoted member, and means mounted on the threaded pins for securing the door and insuring a close joint between the door and door opening.

In testimony whereof I affix my signature in presence of two witnesses.

LURI TABOR.

Witnesses:
JNO. F. CORRIGAN,
G. M. TERRY.