W. A. BERKSHIRE.

SILO BRACE.

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1,345,985. Patented July 6, 1920.

Fig. 1.

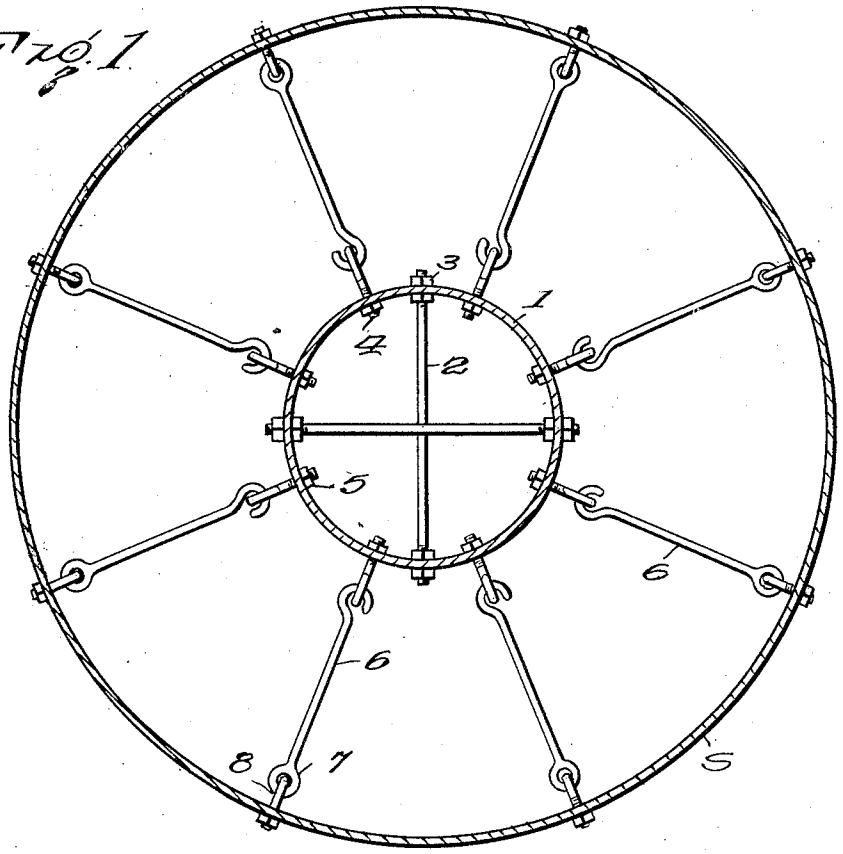
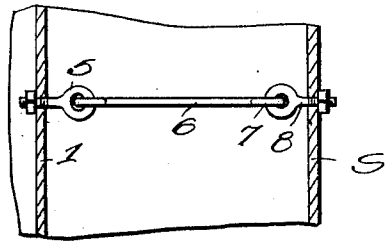


Fig. 2.



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SILO-BRACE.

1,345,985. Specification of Letters Patent. Patented July 6, 1920.

Application filed November 3, 1917. Serial No. 200,100.

To all whom it may concern:

Be it known that I, WILLIAM ANDERSON BERKSHIRE, a citizen of the United States, residing at Ocheyedan, in the county of Osceola and State of Iowa, have invented certain new and useful Improvements in Silo-Braces, of which the following is a specification.

This invention relates to improvements in silos and it is the principal object of the invention to provide a novel means for causing the silo to retain its proper shape during summer time or at any time when the same is empty, thus, preserving the period of duration of the structure and rendering the same fit for use at all times.

Among other aims and objects of the invention may be recited, the provision of a device of the character mentioned with a view to compactness, and in which the number of parts are few, the construction simple, the cost of production small, and efficiency and operation high.

The foregoing together with additional advantageous details and arrangement of parts of the preferred embodiment of my invention will be clear from the specific description hereinafter contained, when read in connection with the accompanying drawings forming part thereof, wherein said embodiment of the invention is illustrated for the purpose of facilitating a full understanding of the present improvements.

In the drawings:—

Figure 1 is a horizontal section through a silo provided with the improved bracing means, and,

Fig. 2 is a vertical fragmental section therethrough.

Having more particular reference to the drawings and in connection with which like reference characters will designate corresponding parts throughout the several views, S represents the silo, which as will be understood, is formed from a plurality of suitably arranged staves or blocks.

Concentrically arranged in the silo S is a cylindrical pillar or stay 1 formed of suitable material and being braced by diametrically extending rods 2 having nuts 3 turned into engagement therewith and serving to securely clamp the adjacent portions of the pillar 1 therebetween. Eye-bolts generally indicated by the numeral 4 are engaged with the pillar 1 about the circumference thereof and as will be noted, extend throughout the entire length thereof; locking nuts 5 being provided and adapted to be turned into engagement with the screw threaded shanks of said bolts for an obvious purpose.

A plurality of hooks 6 having eyes 7 formed in their outer ends are provided, the said eyes being engaged in the eyes of other eye-bolts 8, which bolts are secured to the wall of the silo S about the circumference thereof in spaced relation. The hooked extremities of the elements 6 are engaged in the eyes of the bolts 4 and as will be appreciated, by tightening the nuts of the eye-bolts 4 and 8 the same may be placed under proper tension to prevent the distortion of the walls of the silo when the same is empty.

It will of course be understood, that the hooks 6 which serve in the capacity of braces are detachably associated with the silo and the column or stay 1 as are the eye-bolts 4 and 8. Further, my improved bracing means may be applied to any form of silo now marketed with but little alteration thereto and obviously, will serve as means for materially lengthening the period of use of the construction and rendering the same fit for use at any time.

Any number of the hooked braces 6 may be employed, together with a corresponding number of eye-bolts 4 and 8, such as conditions or preference may dictate.

Manifestly, the construction shown is capable of considerable modification and such modification as is within the scope of my claim, I consider within the spirit of my invention.

I claim:—

The combination with a silo having a cylindrical body, of a removable brace comprising a tube of considerably less diameter than the diameter of the silo body and adapted to be centrally located in the latter, eye-bolts adjustably secured at intervals in the silo body and tube and elongated hooks loosely connected permanently to the eye-bolts in the silo body and detachably engageable with the eye-bolts in the tube, and crossed rods in the tube and connected thereto at diametrically opposite points of the same.

In testimony whereof, I affix my signature hereto.

WILLIAM ANDERSON BERKSHIRE.