

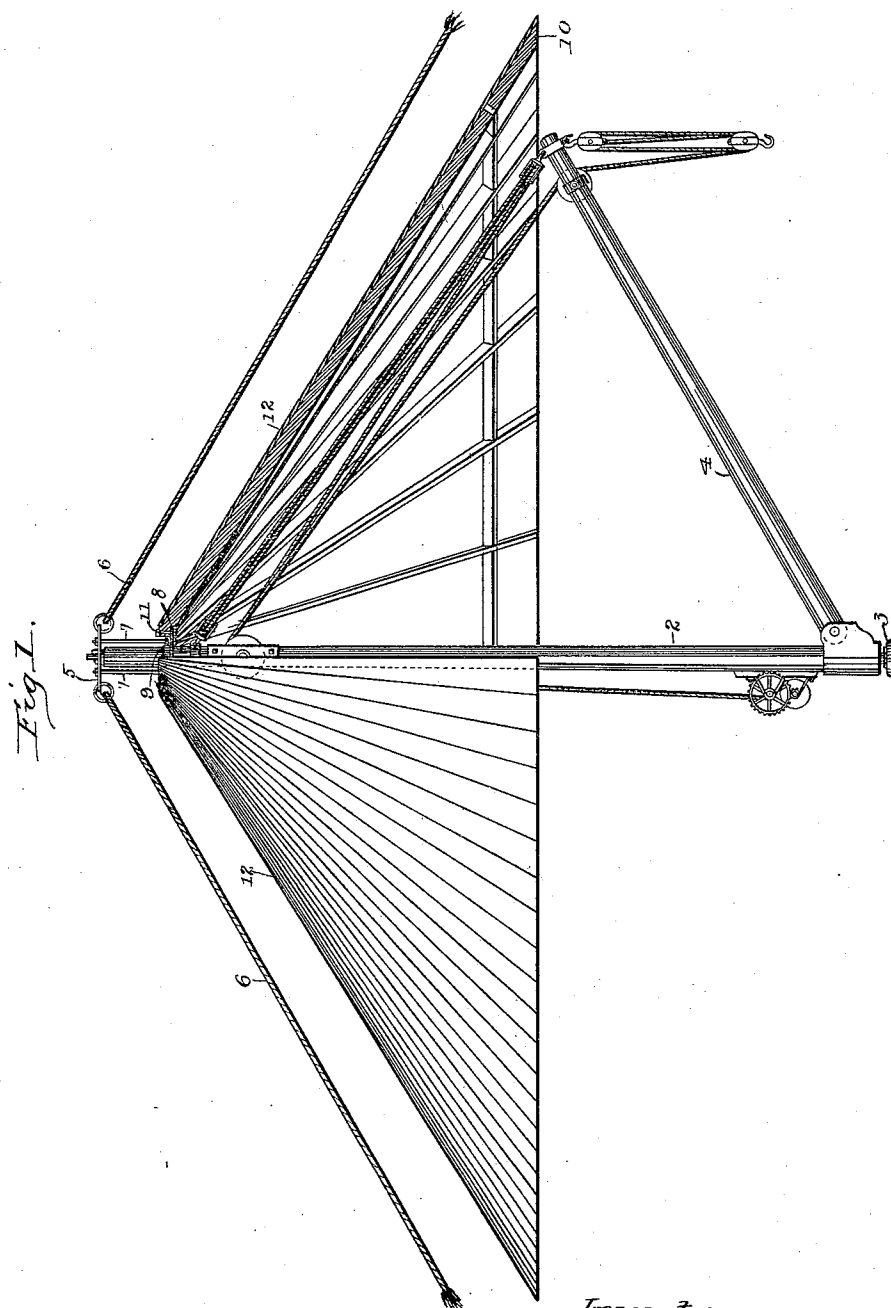
(No Model.)

2 Sheets—Sheet 1.

R. ASHWORTH.
DERRICK SHED.

No. 461,465.

Patented Oct. 20, 1891.



Witnesses:-

G. L. Caldwell.

A. Mae Welch

Inventor.

Robert Ashworth,

per *Paul Menouin*
Attorneys.

(No Model.)

2 Sheets—Sheet 2.

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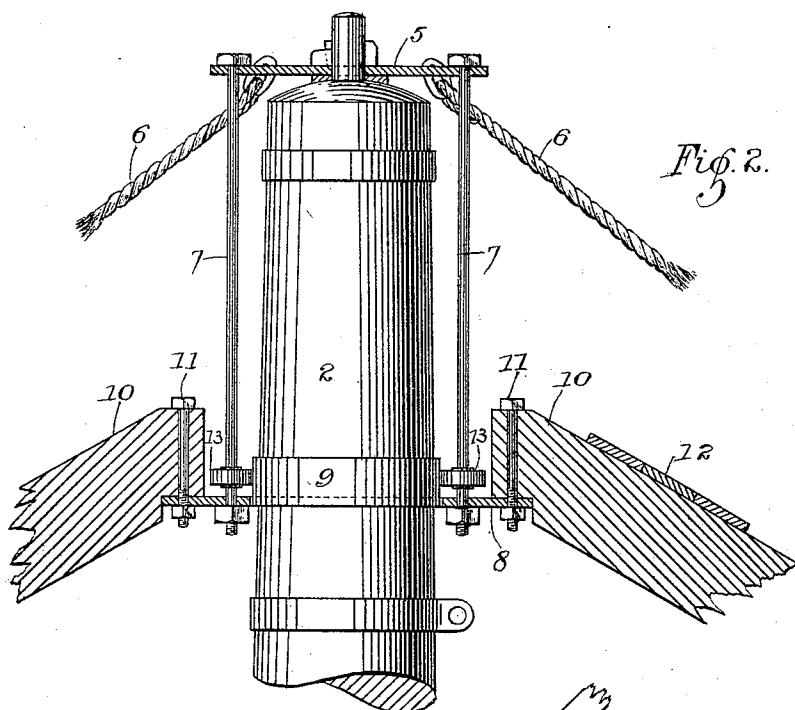


Fig. 2.

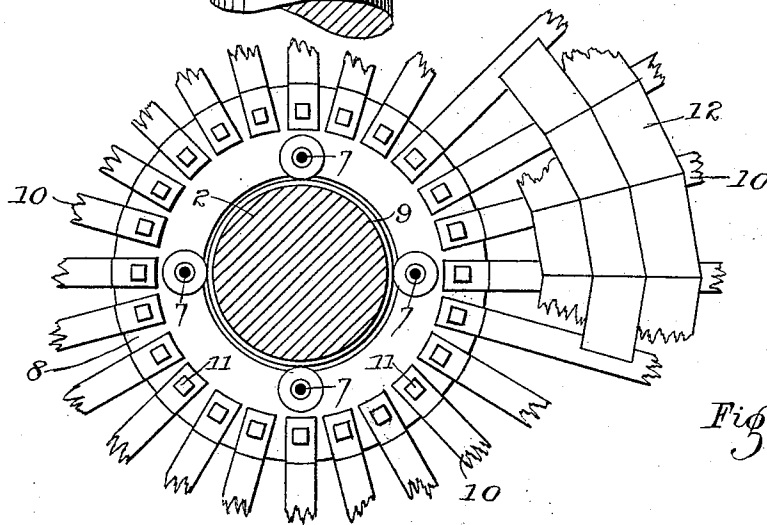


Fig. 3.

Witnesses:-

C. L. Baldwin.

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Inventor,

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UNITED STATES PATENT OFFICE.

ROBERT ASHWORTH, OF ST. CLOUD, MINNESOTA.

DERRICK-SHED.

SPECIFICATION forming part of Letters Patent No. 461,465, dated October 20, 1891.

Application filed September 29, 1890. Serial No. 366,606. (No model.)

To all whom it may concern:

Be it known that I, ROBERT ASHWORTH, of St. Cloud, Stearns county, Minnesota, have invented certain Improvements in Derrick-Sheds, of which the following is a specification.

My invention relates to improvements in sheds or roofs connected to and supported on derrick-masts and extending beyond the swing of the boom, so as to cover and protect from the weather the workmen and materials underneath and within reach of the derrick without interfering in any manner with the operation of the derrick.

To this end my invention consists in supporting upon a collar surrounding the mast and connected to the guy-plate at the top of the mast a conical roof extending underneath the guy-ropes and over the boom and tackle, so that the entire working apparatus is sheltered and work can be carried on under it in stormy as well as in fair weather.

My invention further consists in the construction and combination hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is an elevation and partial section of my improved derrick, showing the arrangement of the roof upon the mast. Fig. 2 is a detail of the top of the mast, the guy-plate, roof-collar and connections, and Fig. 3 is a detail plan view of the roof-collar.

In the drawings, 2 represents the derrick-mast; 3, the pivotal support for the foot; 4, the boom connected in the ordinary manner to the mast, both being provided with the ordinary tackle and windlass. At the top of the mast is secured the plate 5, to which are connected the ropes 6, which have anchorage or support at the other end to stay the mast. A plate or collar 8 is supported by the plate 5 by means of heavy bolts 7 passing through the same, and anti-friction rolls 13 upon the bolts bear upon the band-plate 9, encircling the mast. Upon the plate 8 are secured the upper ends of the rafters 10 by means of bolts 11, passing through the ends of the rafters and the plate 8. Upon the rafters is secured any suitable rigid roofing material, such as boards 12, forming a conical roof ex-

tending beyond and covering the derrick-boom and its connections and attachments.

The plates, bolts, and other connections of the guys, roof, and mast are made, preferably, of steel to secure the greatest strength and durability.

I claim—

1. The combination, with a derrick-mast, its guys, and guy-plate, of a roof of substantially conical shape supported at its apex from the guy-plate and extending over the boom and tackle, substantially as and for the purposes set forth.

2. In a derrick, the combination, with its mast, of a roof surrounding the mast and supported by the guy-plate and extending beneath the guys and over the boom, substantially as and for the purposes set forth.

3. In a derrick, the combination of its mast, the guy-rope plate pivotally secured upon said mast, an annular plate surrounding said mast beneath said guy-plate, means for supporting said annular plate from the guy-plate, and a conical roof supported at its apex upon said annular plate, substantially as and for the purposes set forth.

4. In a derrick, the combination, with its mast, guys, and guy-plate, of an annular plate arranged beneath the guy-plate, bolts supporting said annular plate from said guy-plate, radial depending rafters supported at their upper ends upon said annular plate, and a rigid covering upon said rafters, substantially as and for the purposes set forth.

5. The combination, with a derrick-mast, of a substantially conical roof journaled and supported at its apex on the mast between the guys and boom, substantially as and for the purposes set forth.

6. The combination, with a derrick-mast, of an annular plate inclosing, supported, and free to turn thereon between the guys and boom, and a conical roof secured at its apex to and supported by said plate, substantially as and for the purposes set forth.

In testimony whereof I have hereunto set my hand this 12th day of September, 1890.

ROBERT ASHWORTH.

In presence of—

C. G. ORLAND,
GEO. H. REYNOLDS.