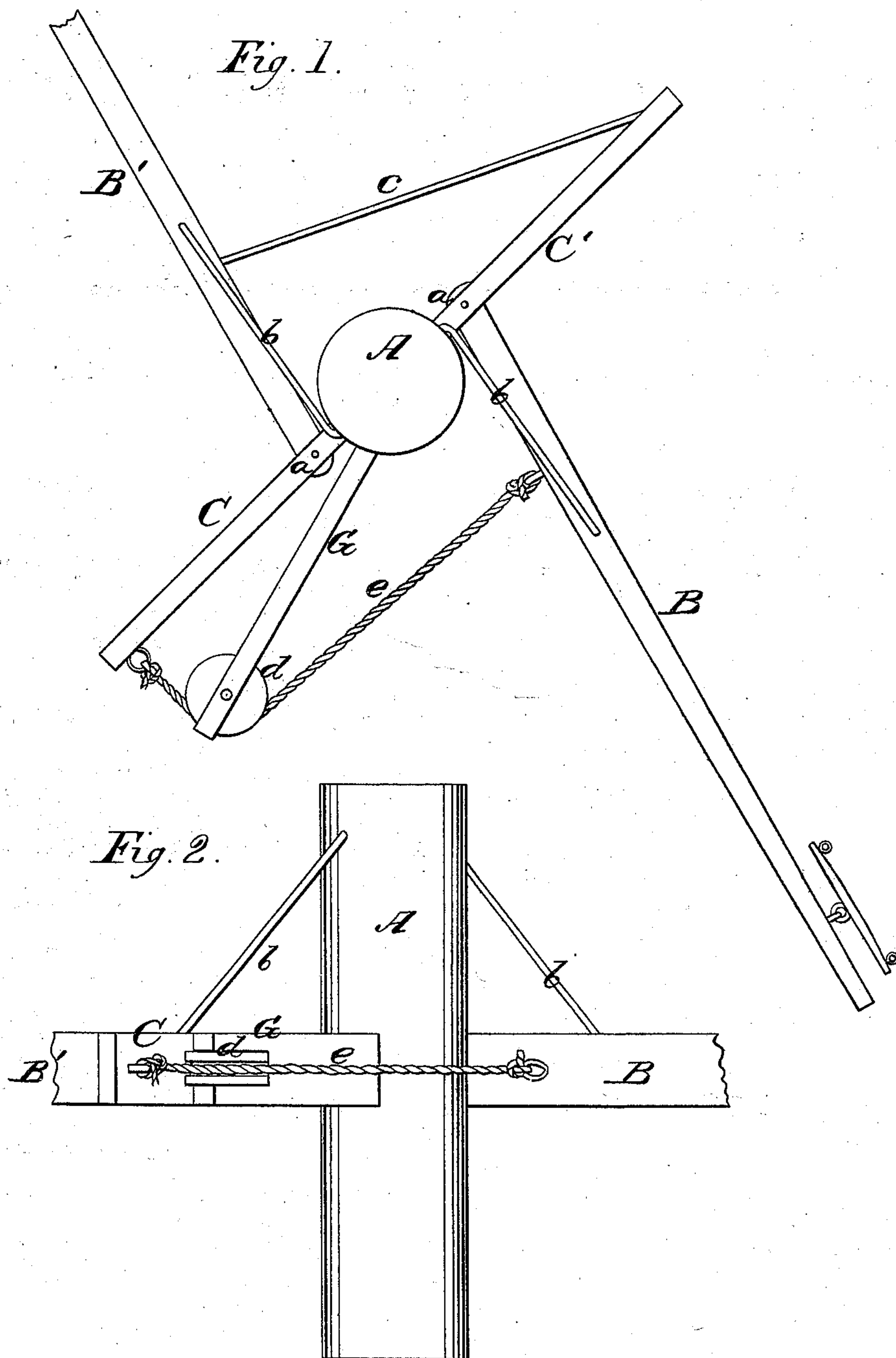


S. W. MELSON.
Beams for Horse-Powers.

No. 149,502.

Patented April 7, 1874.



WITNESSES

Mary J. Utley
Geo. C. Upham. By

INVENTOR

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UNITED STATES PATENT OFFICE.

SILAS W. MELSON, OF SHANNON, MISSISSIPPI.

IMPROVEMENT IN BEAMS FOR HORSE-POWERS.

Specification forming part of Letters Patent No. **149,502**, dated April 7, 1874; application filed March 7, 1874.

To all whom it may concern:

Be it known that I, SILAS W. MELSON, of Shannon, in the county of Lee and State of Mississippi, have invented a new and valuable Improvement in Beams for Horse-Powers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a plan view of my device. Fig. 2 is a side elevation of the same.

This invention has relation to sweep-levers for horse-powers; and it consists in the employment of certain contrivances which will allow the sweep-levers to yield when undue resistance is met with, and which will distribute the force exerted by the team on opposite sides of the master-shaft, as I will now proceed to explain.

In the annexed drawings, A designates the master-shaft of a horse-power, and B B' are two sweep-levers, which are arranged on opposite sides of the shaft A, and to which the animals are hitched. The levers B B' are connected by pivots *a a* to arms C C', which radiate from the shaft A, and which have more or less spring in them. The levers B B' are

connected to the shaft A by means of supporting-braces *b b*, and the lever B' is connected to the arm C' by means of a tie-rod, *c*. G designates an arm, which is rigidly secured to the shaft A, and which has a grooved pulley, *d*, applied to its outer end. Over this pulley *d* a chain, *e*, passes, one end of which is secured to the sweep-lever B, and the other end is secured to the arm C.

It will be seen from the above description that the sweep-levers B B' are pivoted eccentrically to the axis of the shaft A, and that they are allowed to yield by reason of the bending of the arms C C', which will take place whenever a sudden undue resistance is to be overcome.

What I claim as new, and desire to secure by Letters Patent, is—

The sweep-levers B B', with supporting-braces *b*, arms C C', arm G with its pulley *d* and connecting rope or chain *e*, combined substantially as and for the purposes specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

SILAS W. MELSON.

Witnesses:

R. C. TOPP,
W. C. RHODES.