M. H. Mansfield,

Journal Box.

No. 32,301. Patented May 14, 1861.

Fig. 3.

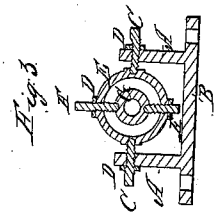


Fig. 4.

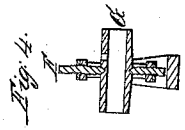


Fig. 1.

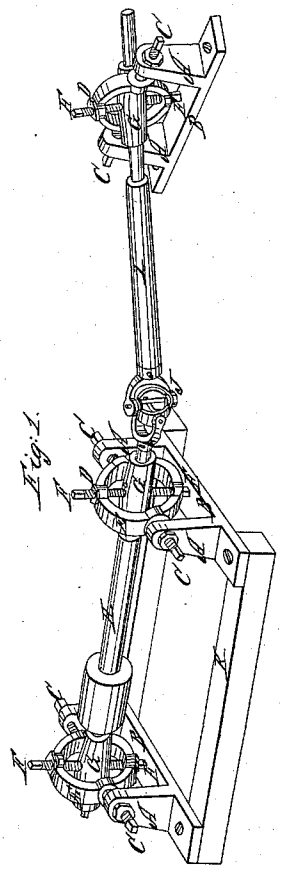
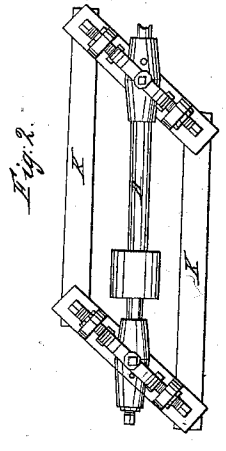


Fig. 2.



Witnesses:

J. Brainerd

W. B. Brainerd

Inventor:

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A.M. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

UNITED STATES PATENT OFFICE.

MARTIN H. MANSFIELD, OF ASHLAND, OHIO.

HANGER FOR SHAFTING.

Specification of Letters Patent No. 32,301, dated May 14, 1861.

To all whom it may concern:

Be it known that I, MARTIN H. MANSFIELD, of Ashland, in the county of Ashland and State of Ohio, have invented new and useful Improvements in Journal-Boxes for Shafting of Threshing-Machines; and I do hereby declare that the following is a full and complete description of the construction and operation of the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1, is a perspective view. Fig. 2, is a top view, and Figs. 3 and 4 are sections.

Like letters refer to like parts in the several views.

The nature of my invention relates to such a construction of journal boxes that the shaft will always be in line, the boxes themselves being self adjusting in any direction. This self adjustment is especially desirable in threshing machines, and others of a portable character, and indeed, in any situation where an unequal pressure is felt upon the shaft, by a belt or gear, near one of the boxes, thus tending to wear one of the boxes faster than the other, which would cause the journal to bind in the boxes, provided they were rigidly fixed. With my improvement, such a binding of the journals cannot take place, and this, in virtue of the self-adjusting character of the boxes.

The practical advantages of my improvement is most especially seen in threshing and grain separating, and like machines. It is well known to every one who has charge of such machines, that much care is required in the adjustment of the boxes or bearings to the shaft, when the machines are first put to work; and further, by the very motion of the machine while at work, it is liable to get shifted in position and in this manner get the shafting out of line with the journal boxes. But with my improvement, all these difficulties are obviated.

This improvement is also of great value upon street rail roads, allowing a free adjustment of the axles in turning a curve.

A, A, are two metallic standards, rising from a base B. These must be of such size as to correspond to the size of the boxes and gearing to be used. Through the top of these, pass strong screws C, C, secured by a jam nut, D, that they may be kept securely in place. The ring E, is suspended and supported upon the points of these screws, which form pivots for the same, the ring E, being suspended in the manner shown in the drawings, and so that it can turn and revolve vertically upon the points of these screw pivots, which pivots enter depressions in the horizontal sides of the ring and opposite to each other.

F, F, represent two screws, also forming pivots, which pass through the upper and lower sides of the ring E, and which, are also furnished with jam nuts, like those upon the screws C, and for the same object. These screw pivots F, F, support the journal box G, by entering depressions on the upper and lower sides thereof, thus allowing the box G, to turn in either direction horizontally, and this arrangement allows of the adjustment of the box in any direction, either vertically by means of the ring E; horizontally by means of the pivots F, F, which support the journal box—or obliquely, by the combined action of both ring and box, as set forth.

The box may be made as a pipe box, or it may be a divided box, and the two parts be secured together by lugs and screw bolts in the usual manner.

H, represents the horizontal shaft, leading from the motive power to the inclined shaft I, which connects with the machine. The shafts H and I are joined as is usual in such cases, and situations, by a universal joint, J.

The base piece B, may be attached to timbers K, K, and may lie upon the ground in a rectangular form, as in Fig. 1 or as shown in Fig. 2.

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

The making of journal boxes, for shafting for threshing machines, adjustable; horizontally, vertically, and obliquely, by means of the standards A, ring E, and screws C C and F F when arranged in relation to the journal box G, as specified, thus giving it free motion in every direction, as and for the purpose set forth.

M. H. MANSFIELD.

Witnesses:
J. BRAINERD,
W. H. BURRIDGE.