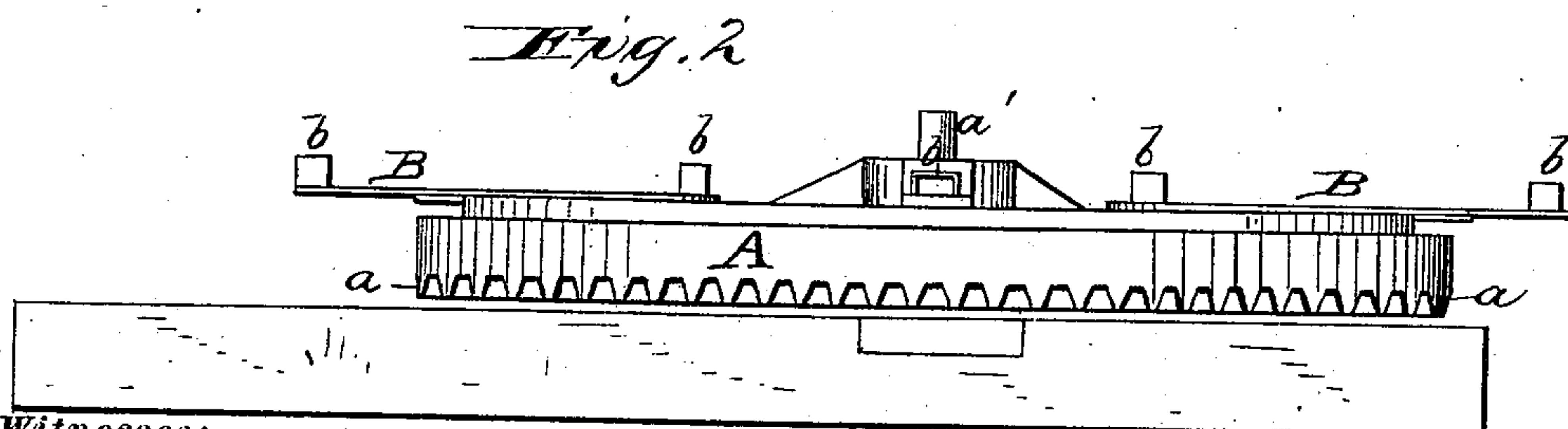
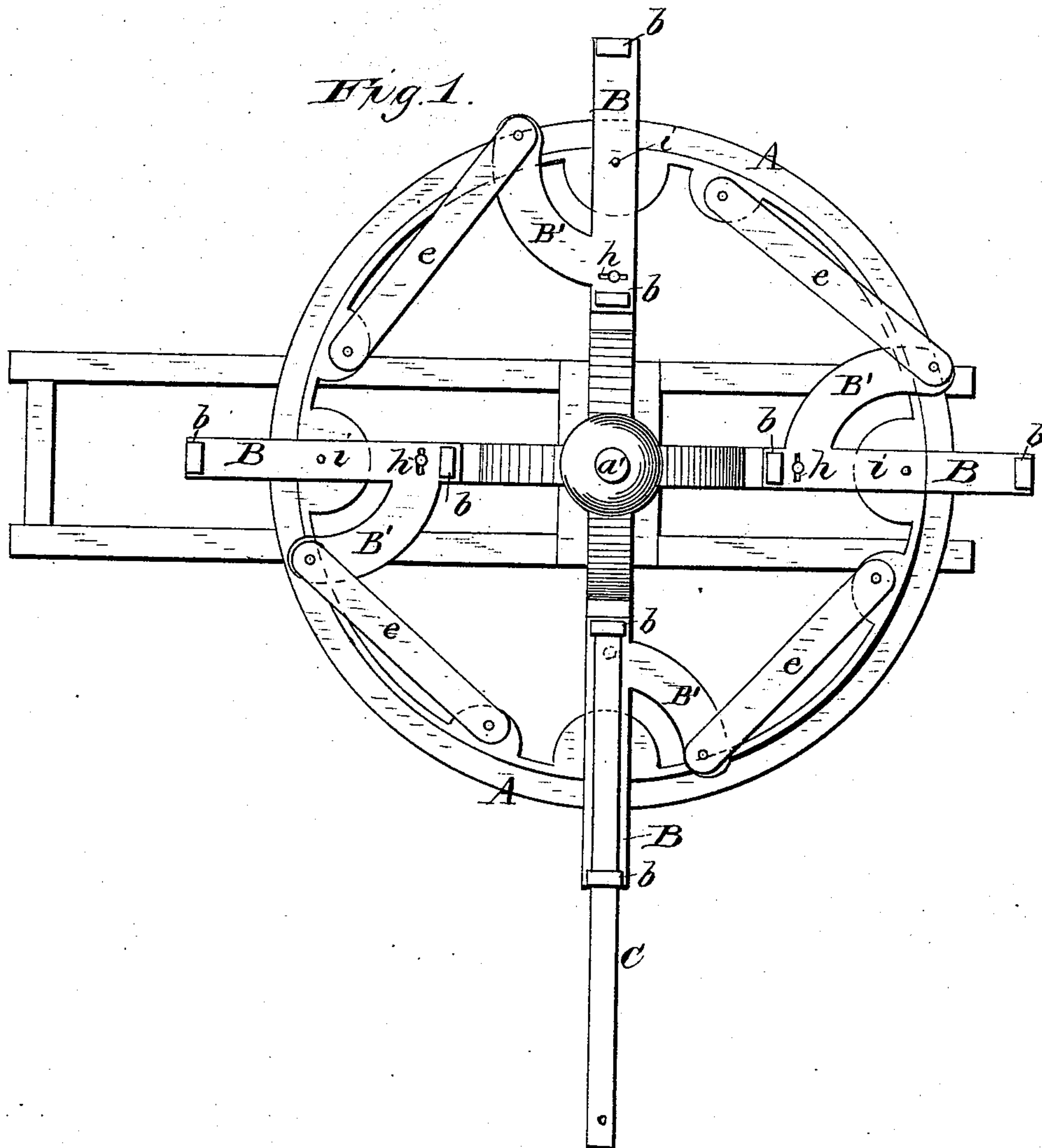


J. PIGGOTT.
Horse-Power.

No. 226,784.

Patented April 20, 1880.



Witnesses:

A. L. O'Connell
Robert Lynch

Inventor:

Joseph Piggott.
by L. Deane,
att'y.

UNITED STATES PATENT OFFICE.

JOSEPH PIGGOTT, OF WADESVILLE, WEST VIRGINIA.

HORSE-POWER.

SPECIFICATION forming part of Letters Patent No. 226,784, dated April 20, 1880.

Application filed January 12, 1880.

To all whom it may concern:

Be it known that I, JOSEPH PIGGOTT, a citizen of the United States, residing at Wadesville, in the county of Wood and State of West Virginia, have invented certain new and useful Improvements in Horse-Powers; 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 is a plan view of a device showing the present invention. Fig. 2 is a side elevation of the same device.

The present invention relates to an improvement in horse-powers; and the novelty consists in the peculiar way and manner in which the draft is made to operate on the master-wheel, all as will now be more in detail set out and explained.

In the accompanying drawings, A denotes the master-wheel of a horse-power, having teeth *a*, and also otherwise of any usual or ordinary construction, and designed to revolve horizontally on a center-pin, *a'*, which has its seat in any suitable frame or support. To and upon the upper face of the wheel A is securely attached at *i* the arm B, one or more, which projects some distance beyond the periphery of A, and having eyes or rings *b* at the outer and inner ends, in which one end of a sweep, C, may be placed. The whiffletree for attaching the horse can be fastened to this sweep at any convenient point. The arm B, being fastened at its center *i* to the master-wheel, may have some horizontal motion on *i* as an axis. This motion is transmitted along the periphery of the wheel by means of the horizontal elbow B' and strap or link *e*, one end of which is pivoted to the outer end of B', and the other to the periphery of the wheel at a considerable distance from the point *i*, where the arm B is secured to the wheel.

To aid in controlling the horizontal move-

ment of the arm B it may be found of advantage to have a slot, *h*, in it toward the inner end, through which slot a stud or pin may project up from the wheel.

It has been found in practice that when the sweeps are attached to the master-wheels by rigid connections, upon suddenly starting the machine the teeth of the master-wheel or its engaging pinion are apt to be injured. This is wholly obviated by the peculiar construction and arrangement of the arms B and connecting-links B', the operation of the same being as follows: Upon suddenly starting the horses the arms and links give slightly and prevent the sudden strain upon the teeth, the said strain being taken up by the slight movement of the arm B and link B', thus preventing injury to the teeth. Moreover, the arms of the wheel, at the point *h*, are relieved of all strain, the power being, through the medium of the link, transferred from the said point to the point where the link is attached to the wheel, at or near its periphery. By this means all danger of breaking said arms is obviated, enabling the wheel to be made much lighter than usual, as the whole strain upon the wheel is distributed around the rim or periphery, which is the strongest part of the wheel.

Having thus described my invention, what I consider new, and desire to secure by Letters Patent, is—

1. In a horse-power, the arm B, having elbow B' and link or strap *e* pivoted thereto, and combined with wheel A, substantially as shown and described.

2. The combination of the sweep C with arm B, having rings or eyes *b* and elbow B' and link or strap *e* pivoted thereto, and master-wheel A, substantially in the manner and for the purposes set forth.

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

JOSEPH PIGGOTT.

Witnesses:

JAS. A. MUNCEY,
ANDREW KINKADE.