

C. Ross,
Horse Power.
N^o 39,424. Patented Aug. 4, 1863.

Fig. 1.

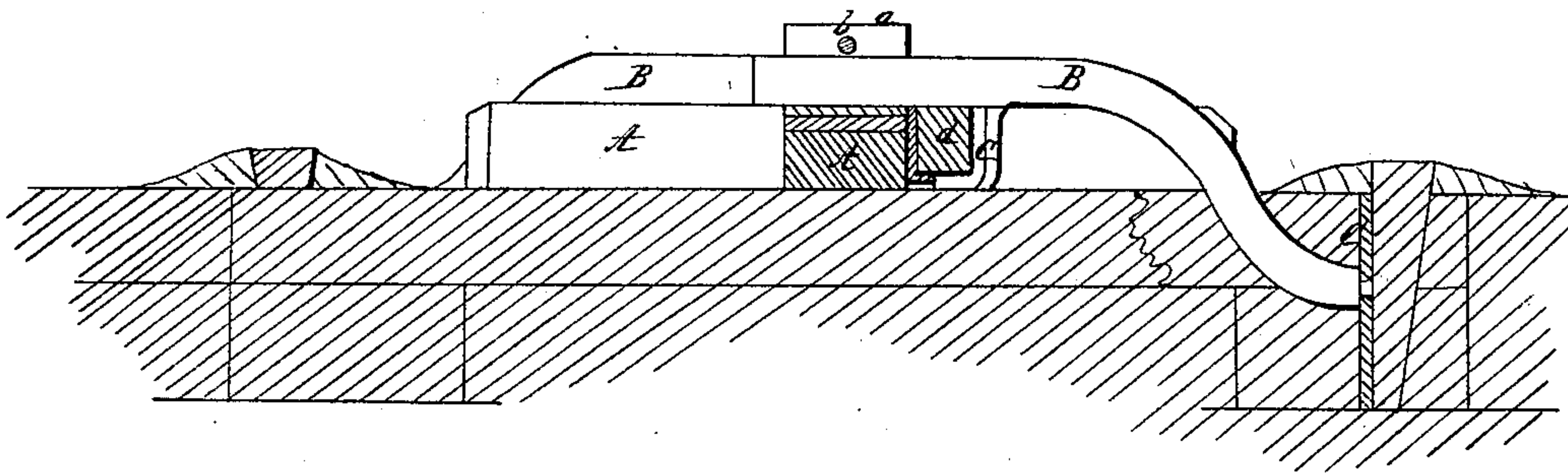
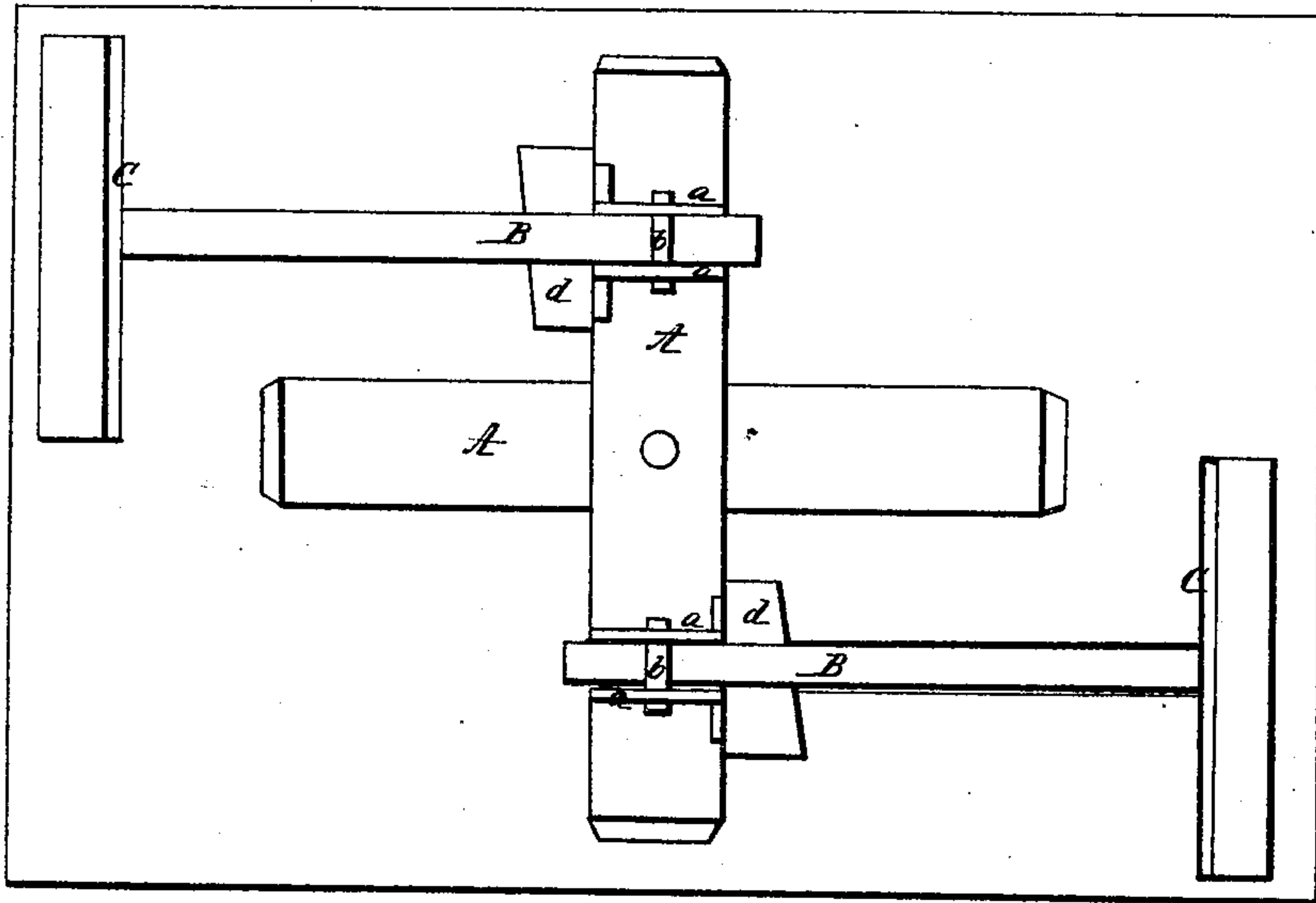


Fig. 2.



WITNESSES:

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UNITED STATES PATENT OFFICE.

CHARLES ROSS, OF HARTLAND, MICHIGAN.

IMPROVED FASTENING FOR HORSE-POWERS.

Specification forming part of Letters Patent No. 39,424, dated August 4, 1863.

To all whom it may concern:

Be it known that I, CHARLES ROSS, of Hartland, in the county of Livingston and State of Michigan, have invented a new and Improved Device for Fastening Horse-Powers; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a longitudinal vertical section of my invention. Fig. 2 is a plan or top view of the same.

Similar letters of reference indicate corresponding parts in both views.

The object of this invention is a device intended to secure the bed-pieces or foundation of a horse-power firmly down upon the ground in any place where it is desired to use the power.

The invention consists in the arrangement of curved iron arms provided with loops or spurs at or near one end, with flat plates at the other end, in combination with suitable keys or wedges in such a manner that said iron arms can be readily secured to the bed-pieces of a horse-power, and also in the ground, and that by these means the foundation of the power is firmly fastened and retained in the desired spot.

To enable others skilled in the art to make and use my invention, I will proceed to describe it.

A A represent the bed pieces, which form the foundation of a horse-power, and which may be made of wood or any other suitable material. One or both of these pieces are provided with lugs *a*, which are firmly screwed down on their surface near to the end, at such a distance apart that they form sockets to receive the arms B B. These arms are made of iron or any other suitable material, and they are secured between the lugs *a* by pins *b*, passing through holes in the upper parts of the said lugs. C C are flat plates of sheet metal, or other suitable material, which are firmly

riveted, or otherwise fastened to the ends of the arms B, and loops or spurs *c* project from the under sides of the arms.

In order to fasten the bed-pieces A A to the ground, I adjust them in the desired place, take the iron arms B B, place their ends into the sockets formed by the lugs *a*, and mark where the foot or plate C strikes the ground. I then set the arm on one side, dig a hole into the ground at the place marked for the plate, tapering downward, about twelve inches wide on the top and six on the bottom, the depth and length being made to correspond to the plate C. The arm B is then replaced, its inner end secured to the bed-piece, and the plate C dropped into the hole in the ground and secured by ramming the dirt in as firmly as possible. To make it still more firm, I take a maul and drive on the end of the iron arm that projects over the bed-piece of the horse-power, first striking the end of the arm, then the wedge *d*, which is inserted into the loop or spur *c*, as shown in the drawings, until the desired firmness is attained.

By my device one man will be enabled to fasten a horse-power beyond the possibility of its moving out of place in about ten minutes, (more or less,) whereas it now takes two men from thirty to forty-five minutes to stake the power.

This device is particularly intended for fastening horse-powers, but it may also be used with advantage for fastening capstans, windlasses, and other similar contrivances.

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

The employment or use of the arms B with spurs *c* and plates or feet C, in combination with the bed-pieces A of a horse-power or other contrivance, applied and operating in the manner and for the purpose substantially as shown and described.

CHARLES ROSS.

Witnesses:

E. A. HUBBELL,
CLARA HUBBELL.