

(No Model.)

F. FANYO & W. H. WRIGHT.

HARNES.

No. 335,440.

Patented Feb. 2, 1886.

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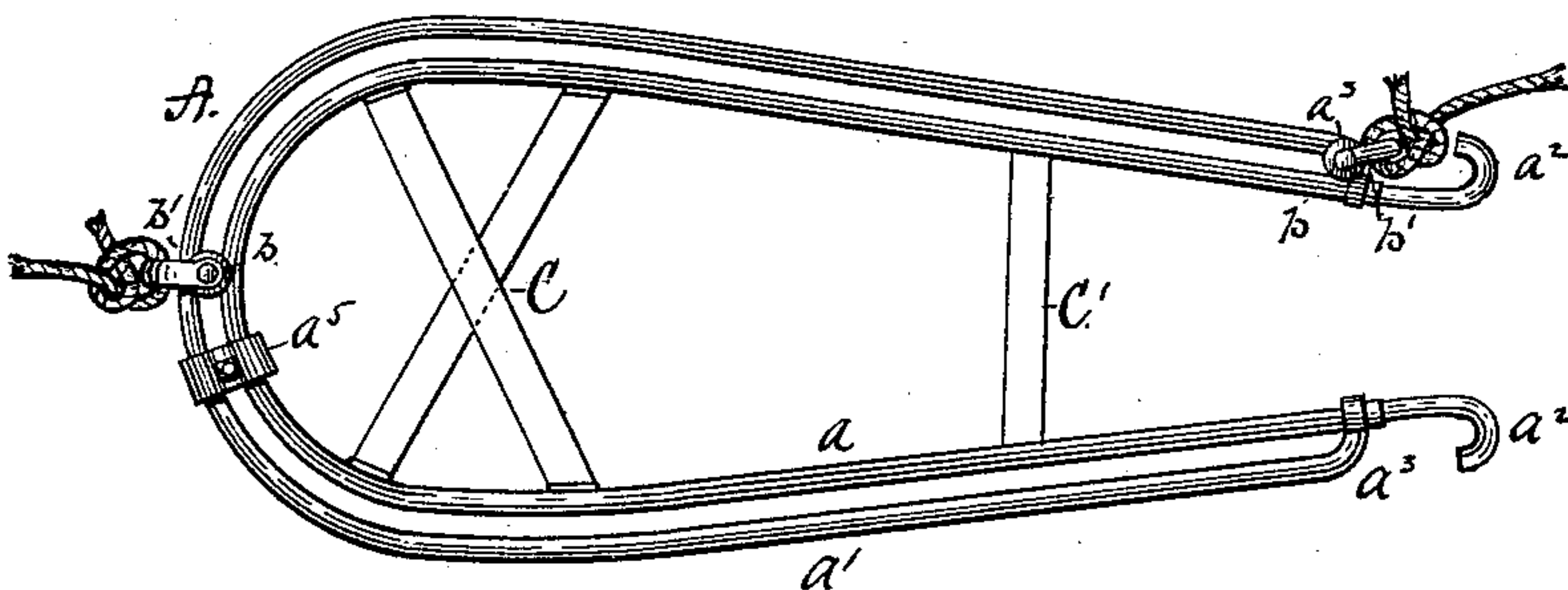


Fig. 2.

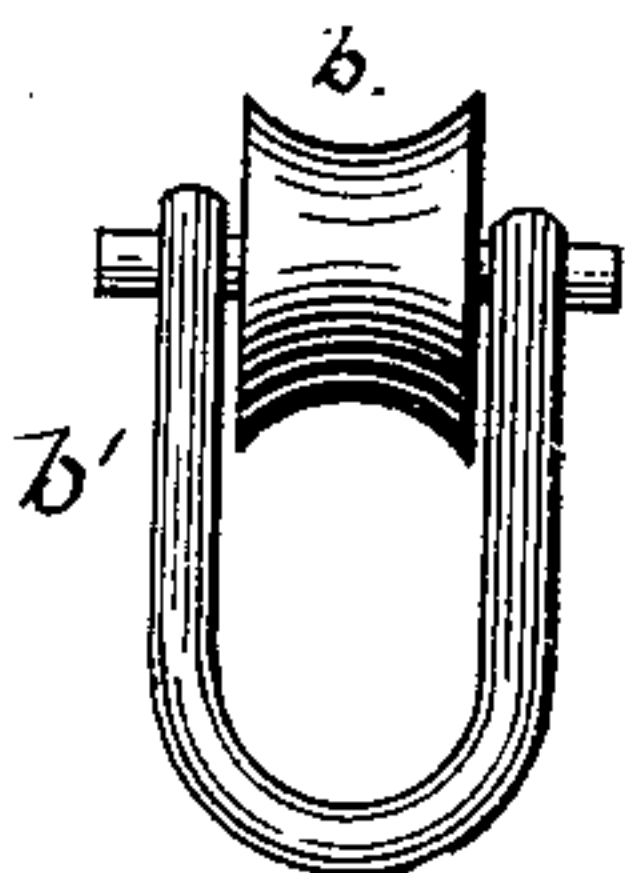
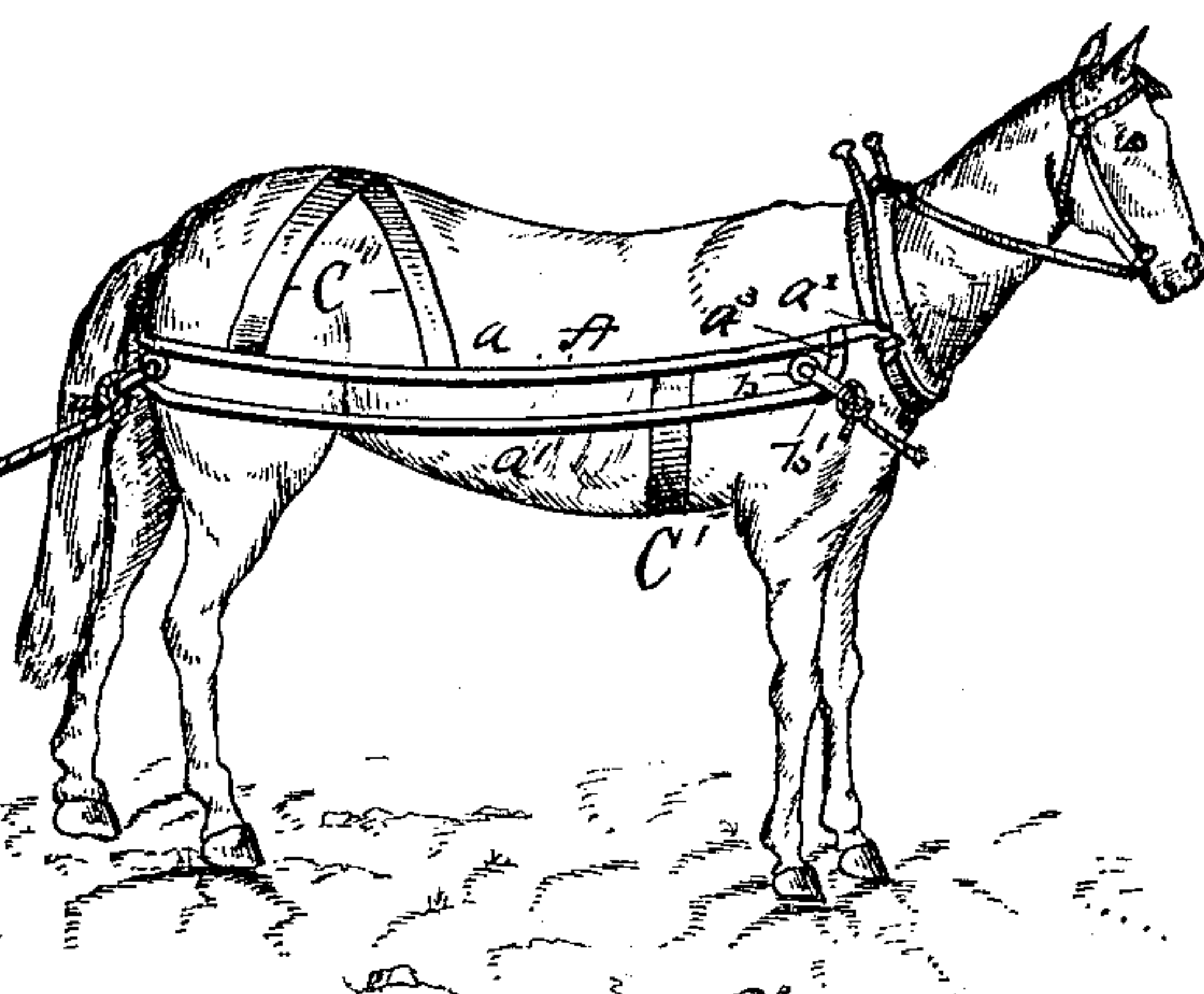
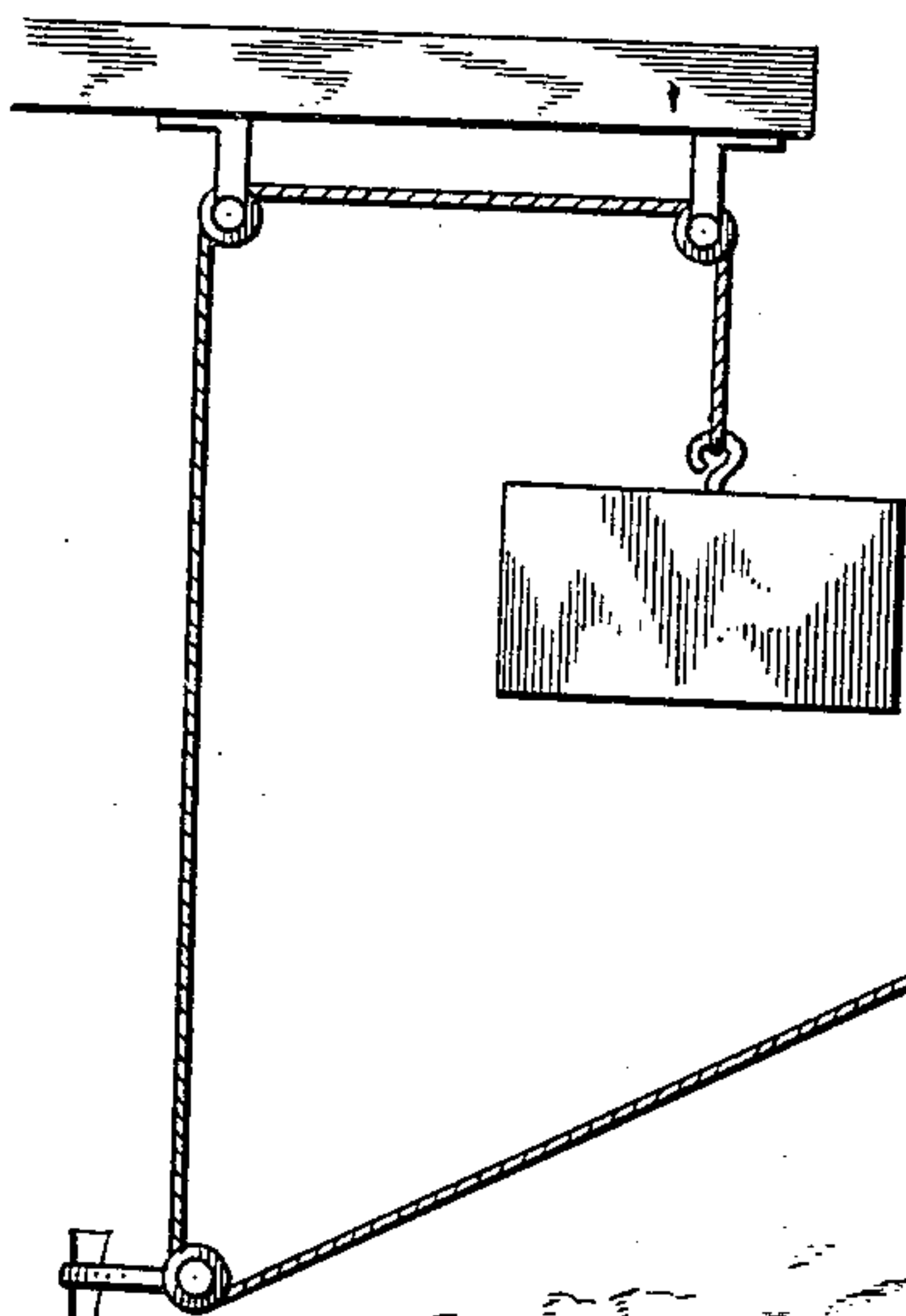


Fig. 3.



Fig. 4



Witnesses
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UNITED STATES PATENT OFFICE.

FRANK FANYO AND WILLIAM H. WRIGHT, OF WATSEKA, ILLINOIS.

HARNESS.

SPECIFICATION forming part of Letters Patent No. 335,440, dated February 2, 1886.

Application filed November 20, 1885. Serial No. 183,389. (No model.)

To all whom it may concern:

Be it known that we, FRANK FANYO and WILLIAM H. WRIGHT, citizens of the United States of America, residing at Watseka, in the county of Iroquois and State of Illinois, have invented a new and useful Hoisting Apparatus, of which the following is a specification.

Our invention has relation to improvements in means for hoisting weights, loads, bales, and similar articles; and the object is to improve existing apparatus.

Our invention therefore consists in a frame adapted to be secured and adjusted to the body of a draft-animal, and to which the rope and tackle may be connected, as hereinafter described, and as will be specifically pointed out and claimed.

We attain the object and purposes of our invention by means of the apparatus illustrated in the accompanying drawings, wherein—

Figure 1 is a plan view of the frame with its connections and appliances. Fig. 2 is a view of the rope, sheave, and clevis. Fig. 3 is a clamp which holds the bars of the frame together; and Fig. 4 is the apparatus as in practical operation.

Similar parts are identified by the same letters of reference.

The letter A designates the frame of the device, composed of the bars a and a' . These bars consist, preferably, of metal piping, as that has the quality of lightness and possesses strength and rigidity sufficient for the purposes. The bar a is bent into an ovate-oblong form, with the open or forward end narrower than the curved end, and is formed with hooks a^2 at the ends, which are adapted to engage with the staples or rings on the hames of the collar, substantially as seen in Fig. 4 of the drawings. These hooks a^2 may be made separate from the main bar by forming them with screw-threads on their shanks and fitting them to screw-threads in the bore of the bar. The bar or frame a' is substantially of the same shape as the other bar, a , but is made preferably broader in its bend, and has its forward ends bent up, as at a^3 , and formed with eyes, which set over the bar a , and secured thereto by any proper means. An adjustable clamp, a^5 , adapted to receive a bar of the frame in each end, is secured on the bar, substantially as shown, and

is adjusted or secured in any desired part of the frame by means of a set-screw let through the middle of the clamp. Ordinarily this clamp is set to the frame a little to one side of the middle rear part, as that holds the frame well together and admits the draft-sheave to set in the middle of the curve.

To the bar a' is fitted a sheave, b , having a clevis, b' , to which latter the rope leading to the weight is connected. This sheave, with its clevis, is free to run on bar of the frame to which it is attached, and may, under circumstances hereinafter stated, assume the position shown in dotted lines in Fig. 1 of the drawings.

The letters C designate bands of leather or other suitable material, which are formed to fit over the back of the horse, and have their ends secured to the upper bar of the frame; and the letter C' designates a belly-band, also secured to the upper bar of the frame. These bands may be made removable from the frame, and also may be made adjustable, as such articles usually are.

In Fig. 4 of the drawings a frame is shown applied to a horse and connection made by the clevis with a rope running over pulleys and sustaining a lifted weight. It will be perceived that the use of a single-tree and traces is dispensed with, the connection being direct between the frame and the rope. The threaded shanks of the hooks to the frame and the threads in the bars of the frame may be extended for such distance on or in the respective parts that the length of the frame may be adjusted to suit the length of the draft-animal. A common collar and hames are used on the animal.

The frame may be applied to the animal by lifting it on and over him and then hooking the hooks in the rings of the hames, after which the mode of operation is clearly shown in Fig. 4 of the drawings. In instances where it is desired to return a weight to the starting-place or to slack it up, the animal is turned about and the sheave is carried along the bar until it seats itself against the angle of the bar at its forward connection, substantially as seen in Fig. 1; and then when the turn-about is made, the animal can be walked in the direction of the weight, instead of being backed, as is usual. It will thus be seen that we have provided a hoisting frame or apparatus which

may be adjusted to the draft-animal very like a harness, and adapted to have direct connection with a block and tackle.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. The hoisting-harness herein described, composed of a metal bar bent in ovate-oblong form having hooks at its forward end to connect with the ring of the hames, and a second metal bar bent in ovate-oblong form having its forward ends struck up and secured to the hooked bar, said bars being connected together at their back or curved parts by a clamp and adapted to have connected thereto the rope leading from the weight and provided with straps to adjust and secure the frame to a draft-animal, substantially as described.

2. The hoisting-harness herein described,

composed of a metal bar bent in ovate-oblong form, hooks adjustably secured to the forward ends of said bars to connect it to the hames, a second metal bar bent in ovate-oblong form secured to the first said bar and provided with a sheave and clevis, an adjustable clamp to hold said bars together at their rear, and straps to adjust and secure the frame to an animal, substantially as described.

In testimony whereof we have hereunto set our hands in the presence of two attesting witnesses.

FRANK FANYO.
WILLIAM H. WRIGHT.

Attest:

GEO. B. DANIELS,
JOHN UPSALL.