

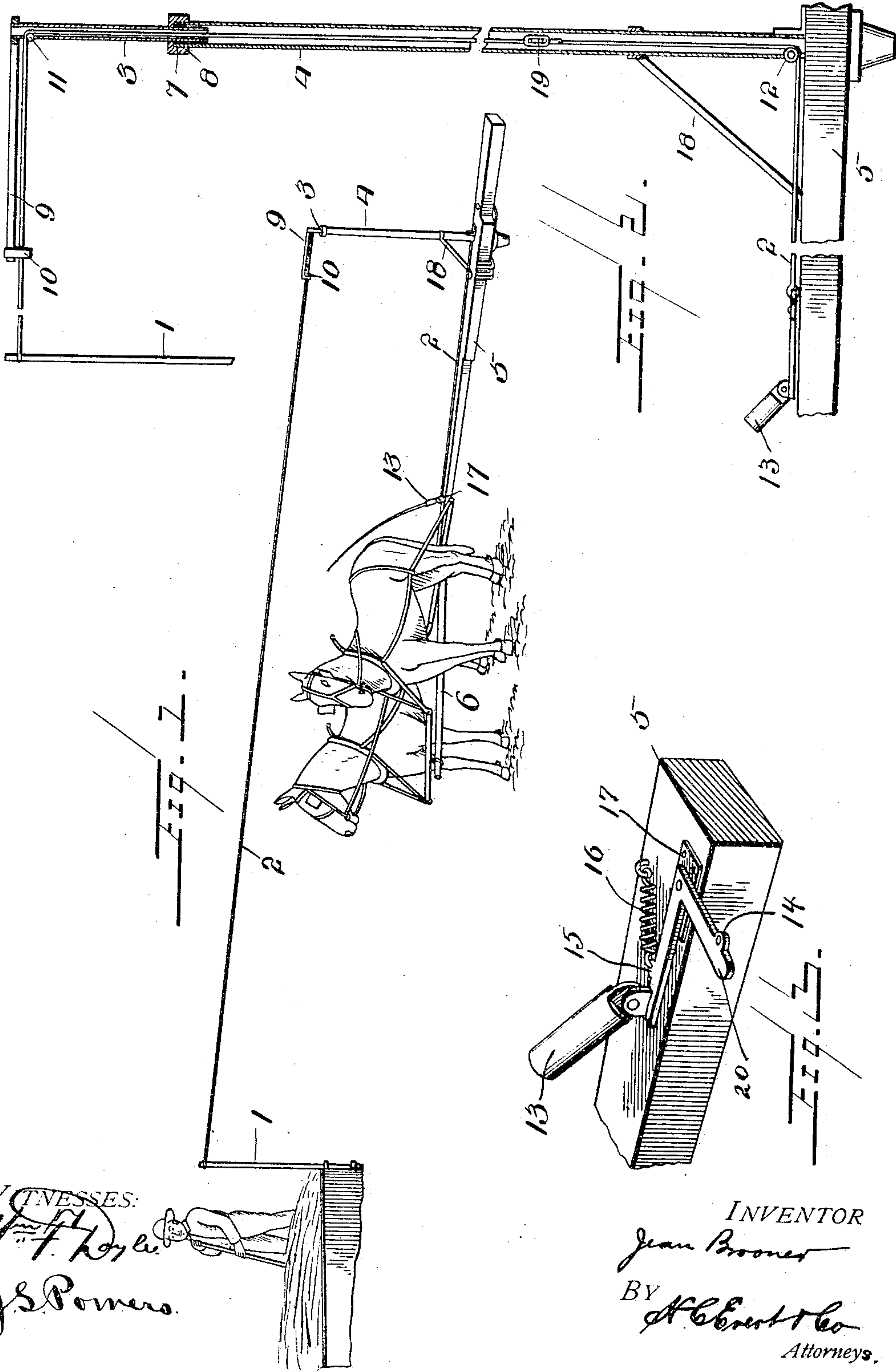
No. 766,136.

PATENTED JULY 26, 1904.

J. BROONER.  
DEVICE FOR WHIPPING DRAFT ANIMALS.

APPLICATION FILED DEC. 11, 1903.

NO MODEL.



# UNITED STATES PATENT OFFICE.

JEAN BROONER, OF MASON CITY, ILLINOIS.

## DEVICE FOR WHIPPING DRAFT-ANIMALS.

SPECIFICATION forming part of Letters Patent No. 766,136, dated July 26, 1904.

Application filed December 11, 1903. Serial No. 184,755. (No model.)

*To all whom it may concern:*

Be it known that I, JEAN BROONER, a citizen of the United States of America, residing at Mason City, in the county of Mason and State of Illinois, have invented certain new and useful Improvements in Devices for Whipping Draft-Animals, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to certain new and useful improvements in devices for whipping horses or other draft-animals, especially when being used as the motive power for hay-presses and machines of like character, and has for its object to provide a device that shall eliminate the necessity of having a person to follow the team for the purpose of whipping the same.

A further object of my invention is to secure a steadier motive power than exists in the present mode of operation, wherein the draft-animals are apt to start when the whip is applied.

Still another object is to have the operation of whipping occur at a predetermined place, equal intervals of time elapsing between the operations, and the whip to be applied with an equal amount of force in each successive operation, the whip where two horses are employed first coming in contact with one and then with the other.

More particularly my invention relates to devices of the class specified wherein the operator can control the press or other machine and whip the team at the same time, thereby dispensing with the necessity of having a person to follow the team, thus saving labor and expense and securing better results in the work accomplished.

With these and other objects in view I have provided a device exceedingly simple in operation and involving a very small number of parts in its construction and one which may be taken apart at any time for the purposes of repairing or of substituting new parts for those that may have become worn in the course of use.

Having now set forth the general purposes and advantages of my improved construction,

I will describe the same in detail, reference being had to the drawings forming a part of this specification, in which like numerals of reference indicate like parts.

Figure 1 is a perspective view of my improved device in position for operation, showing the operating-ropes, the coverings incasing the same, and the whip mounted in the socket therefor. Fig. 2 is a detached vertical section through the casings 3 and 4, showing the casings, the rope passing therethrough, and the pulleys upon which the same rides. Fig. 3 is an enlarged perspective view showing the whip-socket mounted upon a suitable base.

Referring to the drawings, 1 represents an operating-lever, preferably made of resilient metal, although I do not limit myself to this mode of construction, to which is attached one end of the rope 2, the latter passing through tubular casings 3 and 4. The casing 4 is mounted upon the arm or sweep 5, that carries the pole 6, to which is attached the swingle-trees supported by the backstays of the harness. The tubular casing 3 is of lesser diameter than the casing 4 and projects downwardly a short distance into the orifice of the same, being held in the desired position by means of an annular collar 7, secured thereto, provided with a downwardly-extending flange 8, that fits loosely over the outer periphery of the casing 4 and is revoluble upon the same. The casing 3 carries on its upper extremity the supporting-arm 9, which is rigidly secured thereto in an approximately right-angular position. The arm 9 is formed with a downwardly-extending lug 10, provided with an aperture through which the rope 2 passes. Arranged at the upper and lower terminations, respectively, of the casings 3 and 4 are pulleys 11 and 12, over which the rope 2 passes. The rope 2 after being passed through the lower extremity of the casing 4 is secured to an L-shaped bell-crank lever 20 by means of an apertured lug 14, carried at the end of one of the legs thereof. A similar lug 15 is located at the end of the other leg, through which is passed one end of a spiral spring 16, the other end of the same being secured by a



staple to the arm or sweep 5, the spring being designed to hold the whip-socket in a normal or retracted position. The whip-socket 13 is pivotally and angularly adjustably mounted 5 on the L-shaped bell-crank lever 20, the latter being in turn pivoted to a base-plate 17, fastened upon the sweep 5. The casing 4 is supported in a substantially vertical position by means of a brace 18, having its ends fastened, respectively, to the arm or sweep 5 and 10 the tubular casing 4.

In practical use the operator stands at some distance from the team upon the feed-press or other machine. When the team drawing the 15 rotatable arm or sweep 5 arrives at some predetermined point on their circular course, the operator draws forward the lever 1, thus pulling the rope 2 and imparting a lateral motion to the whip-socket 13, which in order 20 to secure the best results is adjusted at any angle between twenty-five and forty degrees. By this operation the whip is caused to strike the draft-animals with considerable force. When the lever 1 is released, being 25 of resilient material, it returns to its normal position and the spring 16 draws the L-shaped bell-crank lever, carrying the socket 13, back to its normal position. The collar 7 is loosely mounted upon the casing 4, so that as the latter 30 revolves with the arm or sweep 5, to which it is rigidly fixed, the casing 3 will remain in normally stationary position, being thus held by the influence of the rope 2, which is drawn taut between the lever 1 and the arm 9. In 35 order to keep the rope from twisting and wearing in the casing I have separated the same into two sections and have then connected the sections together by a swivel-joint, as shown at 19.

40 It is obvious that many changes may be made in the entire invention. As shown in the drawings, the device is adapted to be used on a hay-press or other machine operated by a rotatable arm; but I do not limit its use to 45 that particular class of machines, as it is obvious that it can be used to advantage on machines of different operation by alterations in the arrangement or general shape of the parts. Particular parts—such as the lever, the arrangement and shape of the casings, and the 50 whip-sockets—may be changed in various ways. These changes indicated above and

many others may be made without departing from the general spirit of my invention.

The advantages of my improved device will 55 be readily apparent. As has been stated hereinbefore, the services of the man following the team are dispensed with, thereby saving expense and unnecessary confusion. A steadier amount of power is insured, thus allowing 60 a greater amount of work to be done. The whip being capable of being operated at predetermined points and with an equal amount of force does not cause the draft-animals to start suddenly, and in addition to these general 65 advantages by the construction of the L-shaped bell-crank lever and the whip-socket mounted thereon by lengthening the whip two or more animals may be lashed by one stroke thereof. 70

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

1. In a device of the character described, the combination with the sweep, of a casing mounted 75 thereon, a second casing telescoping into the upper end of the first-mentioned casing, an arm carried by the second-named casing, an operating-lever, a rope connected at one end to said lever and extended through the 80 casings, a bell-crank pivotally mounted on the sweep and to one leg of which the other end of said rope is attached, a whip pivotally mounted on the other leg of said bell-crank, and a spring for holding the bell-crank and 85 whip in their normal positions, substantially as described.

2. In a device of the character described, the combination of the sweep, a vertically-disposed casing mounted on the sweep, pulleys 90 mounted in said casing at the upper and lower ends thereof, a bell-crank pivotally mounted on the sweep, an operating-lever, a rope having its one end attached to said lever and passed over the pulleys in the casing, with its other 95 end attached to said bell-crank, and a whip pivotally mounted on the bell-crank, substantially as described.

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

JEAN BROONER.

Witnesses:

S. H. COVEY,

W. R. FIDDLER.