

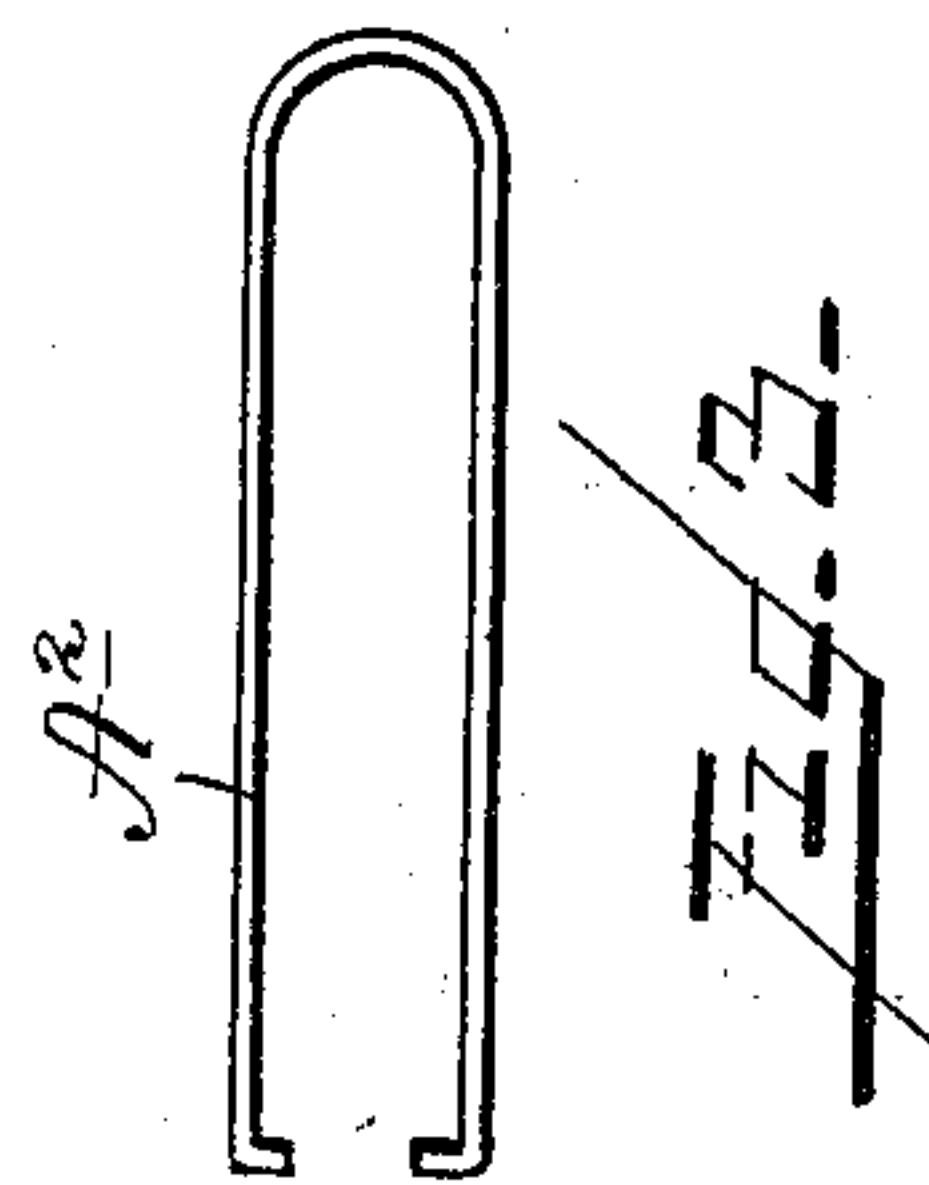
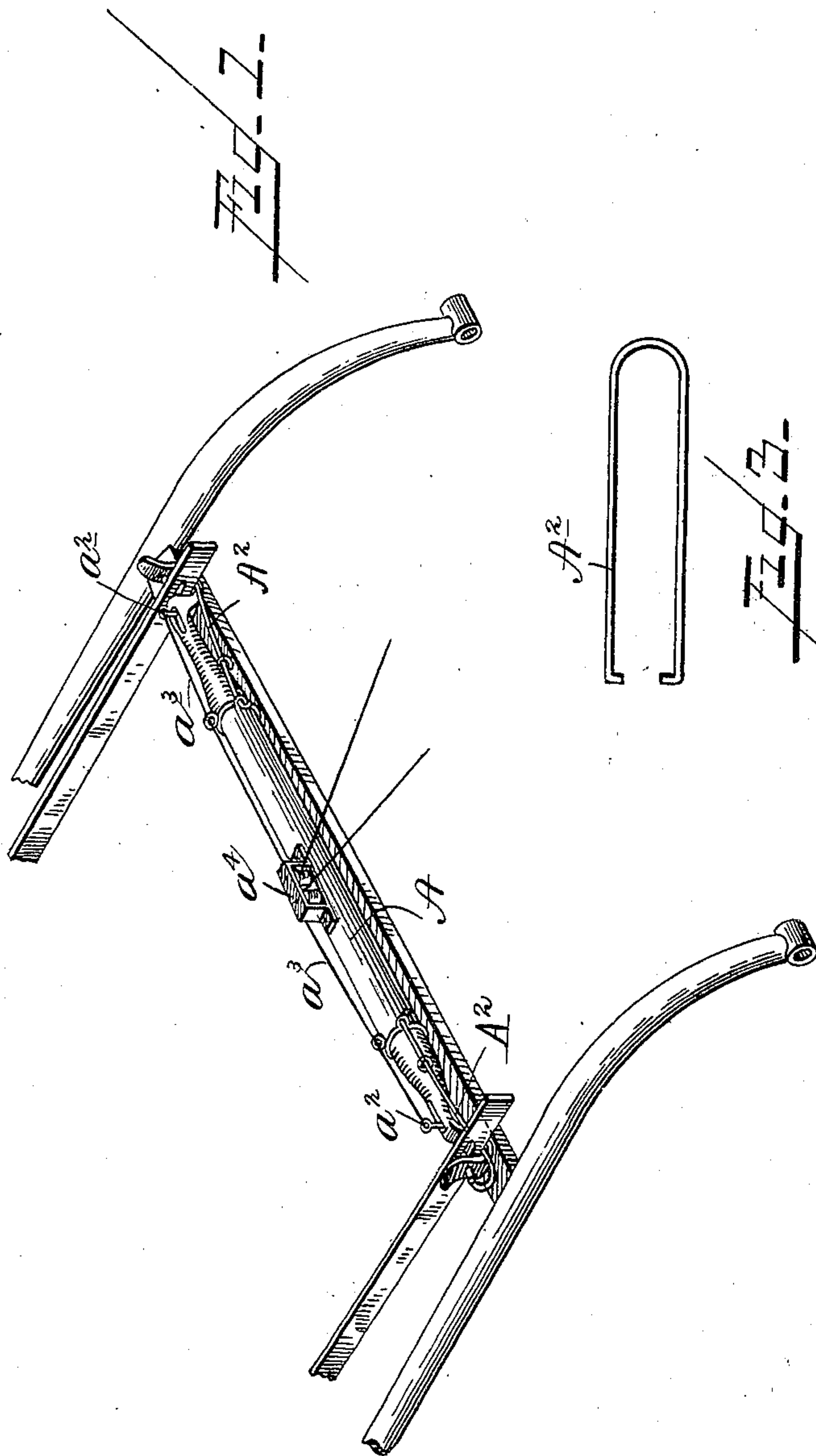
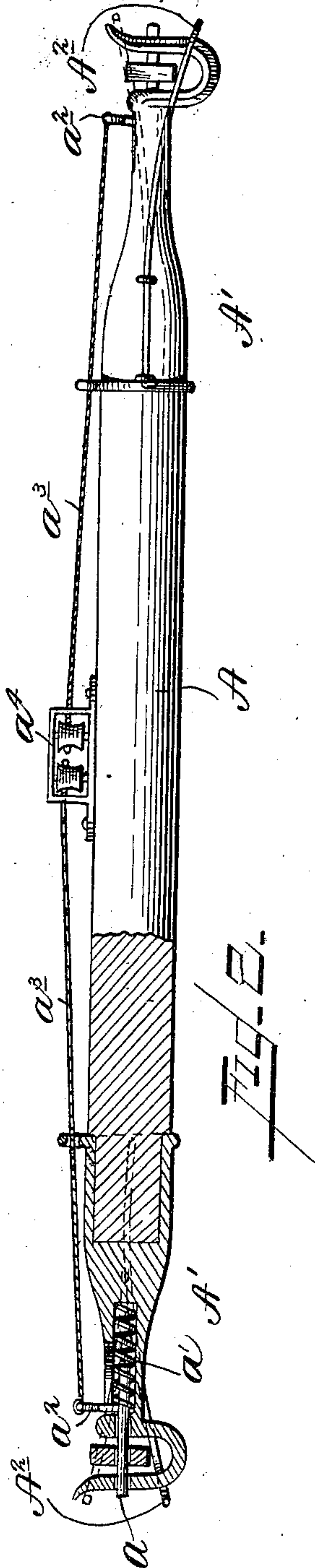
No. 658,141.

Patented Sept. 18, 1900.

G. W. CREPS.
HORSE DETACHER.

(Application filed June 22, 1900.)

(No Model.)



Witnesses
F. L. Ourand
Forsberg Brown.

Inventor
George W. Creps,
per, E. W. Bradford
Attorney

UNITED STATES PATENT OFFICE.

GEORGE W. CREPS, OF ROUZERVILLE, PENNSYLVANIA.

HORSE-DETACHER.

SPECIFICATION forming part of Letters Patent No. 658,141, dated September 18, 1900.

Application filed June 22, 1900. Serial No. 21,213. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. CREPS, a citizen of the United States, residing at Rouzerville, in the county of Franklin and State of Pennsylvania, have invented certain new and useful Improvements in Horse-Detachers, of which the following is a specification.

My said invention consists in an improved construction of singletree-irons or attaching and detaching devices whereby the trace or tug may be quickly and conveniently attached, securely held, a strong attachment provided, and the detachment from both ends effected instantly and simultaneously when desired, substantially as hereinafter more fully described and claimed.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a perspective view of the rear end of a pair of shafts and a singletree thereon provided with my improvements; Fig. 2, a view of the singletree separately, partly in elevation and partly in longitudinal section; and Fig. 3 a separate view of the spring.

The singletree A is of any suitable form or material, and on each end is provided with a metal socket A', with a U-shaped hook on its outer end. A draft-pin α is mounted in a longitudinal perforation in the end of the part A', adapted to extend across the U-shaped hook and through a perforation in its outer branch, thus furnishing a strong support to both ends of said pin. Its inner end is surrounded by a spring α' , interposed between the inner end of said perforation and a transverse pin α^2 , which extends out through a slot in the socket and has an eye on its outer end. A spring A², consisting of a spring-wire doubled, is attached at its inner ends to each side of the socket and is doubled around the outer end of the hook, its normal position being above said outer end. Attached to each of the eyes of the pins α^2 is a cord α^3 , which passes over a small roller or pulley α^4 in a suitable housing on the center of the singletree and to a position within convenient reach of the driver.

In operation the tug is attached by pushing back the draft-pin by means of the projecting transverse pin α^2 and forcing the end

down into the hook edgewise on top of the spring A² until said draft-pin is opposite the perforation in the tug, when said pin is released and is forced by the spring α' through the tug and the perforation in the opposite side of the hook, thus furnishing a very strong and secure connection for the parts. When it is desired to "unhitch," the driver upon stopping or at any time desired may pull on the cord α^3 , which through the connections draws the draft-pins back into the sockets, and immediately upon the tugs being freed therefrom the springs A² will operate to throw them outward free from the hooks and all connections with the singletree, and thus prevent the possibility of any reengagement when the draft-pins are released.

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

1. The combination in a singletree, of the hook-shaped ends, a draft-pin mounted to extend across each hook and slide in and out, means for operating them, and a spring also extending across the hook, and adapted to pass under the tug when in place, and throw said tug out when freed from said draft-pin, substantially as set forth.

2. The combination, of the singletree A with the parts A' formed with hook-shaped ends, the draft-pins, one mounted in each end to extend across the hook and through perforations in each side thereof, a spring for normally holding each of said pins outward, a transverse projection on each of said pins extending through a slot in the side of the socket, a connection running therefrom to within reach of the operator, and the spring A² mounted on each end of the singletree and extending across the open side of the hook and normally pressing toward said open side, whereby, when said tug is attached said spring will be forced down, and when the draft-pins are withdrawn said springs will throw the tugs out, substantially as set forth.

In witness whereof I have hereunto set my hand and seal, at Waynesborough, Pennsylvania, this 13th day of June, A. D. 1900.

GEORGE W. CREPS. [L. S.]

Witnesses:

J. H. MORROW,
J. PERCY KING.