

(No Model.)

C. H. GARRIGUS.
TRACE HOLDER.

No. 499,982.

Patented June 20, 1893.

Fig. 1.

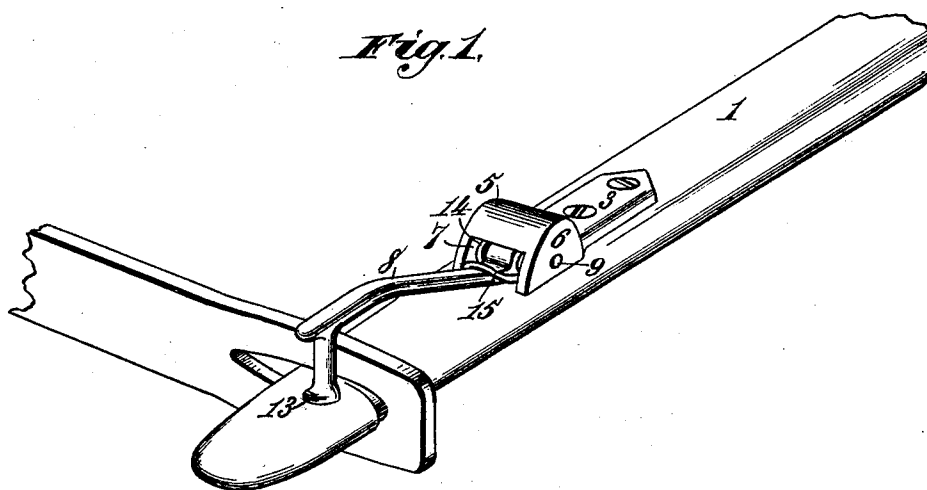


Fig. 2.

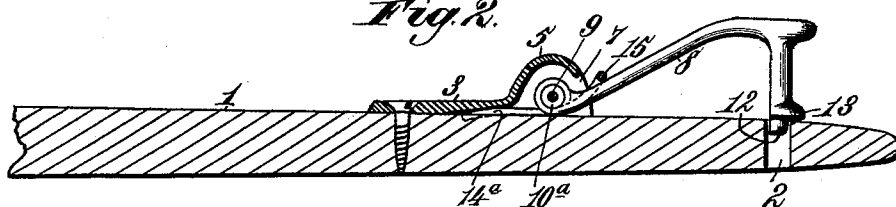


Fig. 3.

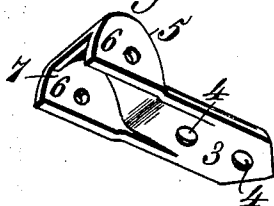
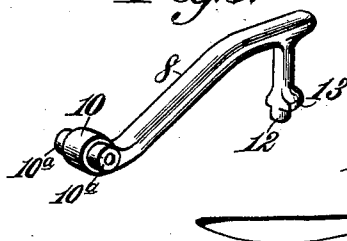


Fig. 4.



Fig. 5.



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UNITED STATES PATENT OFFICE.

CHARLES H. GARRIGUS, OF BLOOMINGTON, ILLINOIS, ASSIGNOR TO CHARLES E. McVAY AND WILLIAM H. PLUMLEY, OF SAME PLACE.

TRACE-HOLDER.

SPECIFICATION forming part of Letters Patent No. 499,982, dated June 20, 1893.

Application filed February 2, 1893. Serial No. 460,724. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. GARRIGUS, a citizen of the United States, residing at Bloomington, in the county of McLean and State of Illinois, have invented new and useful Improvements in Trace-Holders, of which the following is a specification.

This invention has for its object to provide a novel, simple, efficient and practicable trace holder, which can be employed on single-trees of any ordinary form or construction and when applied will lie close to the single-tree to present a neat appearance, while the spiral spring for retaining the swinging arm of the holder in its normal, closed position is housed and protected from dust, dirt, rain and snow.

To accomplish this object my invention consists in the combination of a plate having screw holes and formed integral at one end with an arched, closed housing or casing provided with side walls and an opening or passage, a cross pin secured at its ends in the side walls or housing of the casing, a swinging arm mounted at its inner end on the cross pin and provided at its outer end with a projecting shouldered pin adapted to enter to a limited extent an orifice formed in the end portion of the single tree, a spiral spring arranged on the cross pin in the housing or casing and formed intermediate its coiled portions with a loop bearing against the back of the swinging arm, whereby the shouldered pin is normally held in engagement with the orifice in the single-tree for retaining a trace upon the latter.

The invention is illustrated by the accompanying drawings, in which—

Figure 1, is a perspective view of a portion of a single-tree having my improved trace holder attached thereto. Fig. 2, is a longitudinal sectional view of the same. Fig. 3, is a detail perspective view looking at the inside of the housing or casing. Fig. 4, is a detail perspective view of the spiral spring, and Fig. 5, is a detail perspective view of the swinging arm of the trace holder.

In order to enable those skilled in the art to make and use my invention I will now describe the same in detail, referring to the drawings, wherein—

The numeral 1 indicates a single-tree having its end portion adapted to receive a trace and provided with an orifice 2, for receiving the extremity of a shouldered pin hereinafter described, by which the trace is held upon the single tree.

The improved trace holder comprises a flat metallic plate 3, having screw holes 4 for the passage of screws by which to secure the plate to the single-tree. The flat plate is formed integral at one end portion with an arched, closed housing or casing 5 having side walls 6 and a rectilinear opening or passage 7, Fig. 3, through which projects the swinging arm 8. A cross pin 9 is arranged in the housing or casing and has its ends secured in the side walls 6 and the inner end of the swinging arm 8 is provided with an eye 10 through which the cross pin passes, in such manner that the arm 8 can swing or oscillate on the cross pin. The outer end portion of the swinging arm is provided with a projecting pin 12 having a shoulder 13 near its outer end portion, which pin is adapted to enter the orifice 2 until the shoulder 13 rests upon the single-tree, whereby the entrance of the pin 12 into the orifice 2, is limited by the shoulder 13. The swinging arm is held in normal position with its pin 12 in the orifice 2 of the single-tree, through the medium of a spiral spring comprising two coiled portions 14, encircling hubs 10^a, at the inner end of the swinging arm. The ends 14^a, of the wire spring bear against the inside of the plate 3. The wire composing these coiled portions 14 is formed into a loop 15, which extends outward through the opening or passage 7 and embraces and bears against the swinging arm 8 at a point between the cross pin 9 and the shouldered pin 12, so that the resiliency of the spiral spring described forces the pin 12 into the orifice 2 of the single-tree. The housing or casing 5 having closed side walls 6 serves to house and conceal the coiled portion of the spring and thereby protects such coiled portion of the spring and also the pivotal point of the swinging arm 8, from dust, dirt, rain and snow, which is a very desirable feature of construction in a trace holder, because the dust and dirt would interfere with the proper action

of the parts and rain or snow would rust the spring and render the action of the swinging arm imperfect.

5 The construction of the parts is such that the holder lies closely to the single-tree and presents a neat appearance and all undue projecting points likely to entangle the hairs of the animal's tail are avoided.

10 The improved trace holder is simple, efficient and in practicable use will be found perfectly satisfactory. The flat plate with its housing can be cast in a single piece and the swinging arm with its shouldered pin may also be cast in a single piece so that the trace-
15 holder or fastener is susceptible of being economically manufactured.

Having thus described my invention, what I claim is—

20 1. A trace holder, consisting of a plate formed integral at one end with an arched, closed housing or casing having side walls and an opening or passage, a cross pin secured at its ends in the side walls of the housing or casing, a swinging arm mounted at its inner
25 end on the cross pin, projecting through the opening or passage in the housing or casing and having its outer end portion provided with a pin adapted to enter an orifice in a single-tree, and a spiral spring arranged on
30 the cross pin in the housing or casing and

formed with a loop which projects through the opening or passage in the housing or casing and bears against the back of the swinging arm, substantially as described.

35 2. A trace holder, consisting of a plate having screw holes and formed integral at one end with an arched, closed housing or casing having side walls and an opening or passage, a cross pin secured at its ends in the side walls of the housing or casing, a swinging arm
40 mounted at its inner end on the cross pin, projecting through the opening or passage in the housing or casing and having its outer end portion provided with a pin having a shoulder to limit the insertion of the pin into
45 an orifice in the single-tree, and a spiral spring arranged on the cross pin in the housing or casing and formed intermediate its coiled portions with a loop which projects through the opening or passage in the housing or casing
50 and embraces and bears against the swinging arm, substantially as described.

In testimony whereof I have hereunto set my hand and affixed my seal in presence of two subscribing witnesses.

CHARLES H. GARRIGUS. [L. S.]

Witnesses:

CHARLES E. MCVAY,
NATHAN T. PUSEY.