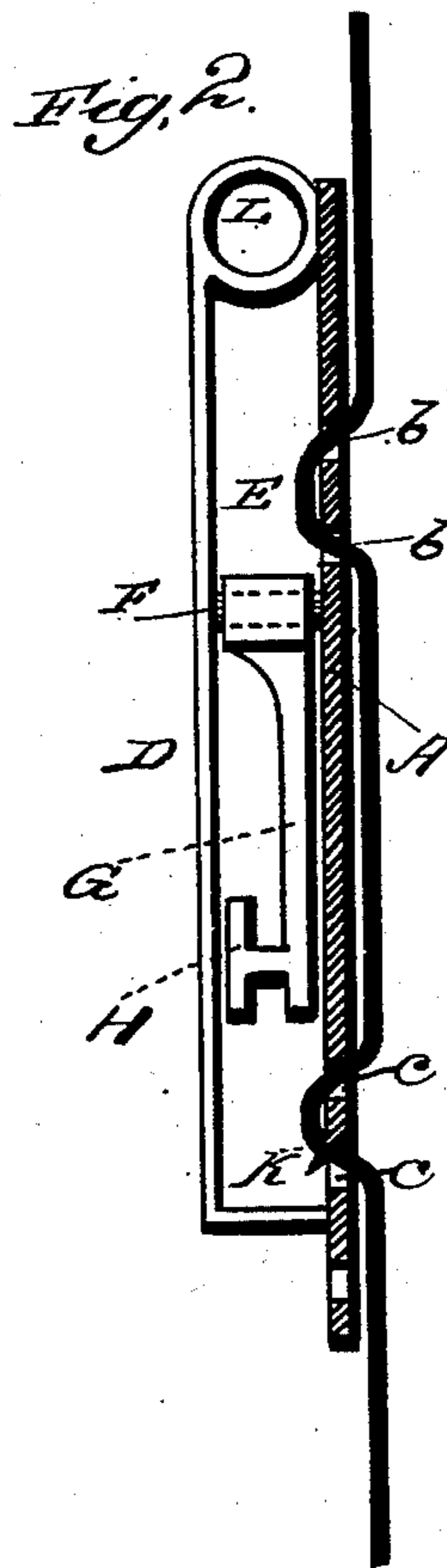
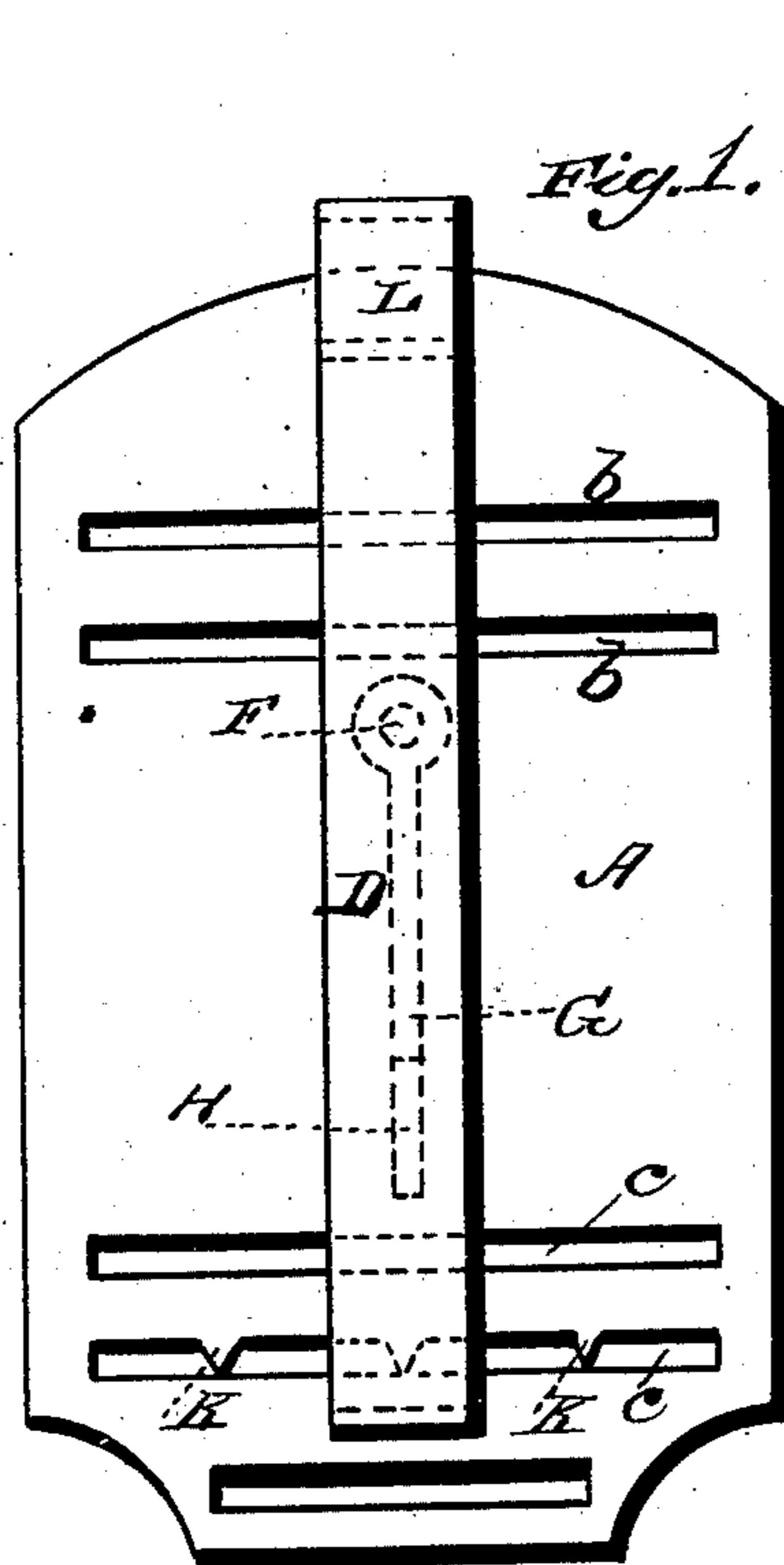


(No Model.)

F. HAYNES.
BACK BAND HOOK.

No. 294,229.

Patented Feb. 26, 1884.



WITNESSES
E. H. Roates,
John T. Morrow?

INVENTOR
Frank Haynes,
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his ATTORNEYS

UNITED STATES PATENT OFFICE.

FRANK HAYNES, OF MONTICELLO, ARKANSAS.

BACK-BAND HOOK.

SPECIFICATION forming part of Letters Patent No. 294,229, dated February 26, 1884.

Application filed December 15, 1883. (No model.)

To all whom it may concern:

Be it known that I, FRANK HAYNES, a citizen of the United States, residing at Monticello, in the county of Drew and State of Arkansas, have invented certain new and useful Improvements in Back-Band Hooks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of a plan view of my invention, and Fig. 2 is a central longitudinal sectional view of the same.

This invention has relation to means for preventing the traces from rubbing against the sides of the horse; and it consists in the construction and novel arrangement of the transversely-slotted guard-plate and central vertical stay, the pivot-bearing connecting the plate and stay, and the vibratory trace-hook pivoted on this bearing.

The invention also consists in providing the upper portion of the stay with a ring or loop for the passage of a plow-line, when required, all as hereinafter set forth.

In the accompanying drawings, the letter A designates the side guard-plate, which is made with two horizontal slots, *b b*, in its upper portion; and two horizontal slots, *c c*, near its lower end, through which the back-band passes.

D is the outer stay, the ends of which are firmly secured to the upper and lower portions of the plate. This stay extends centrally and vertically parallel to the plate, and between the stay and plate is the opening E, through which the trace or tug passes.

F indicates a pivot bearing or bar, which connects the plate and stay at the upper part

of the middle portion of the plate, and on this bearing is pivoted the pendent swinging hook or carrier G, the lower end of which is provided with an outwardly-turned \neg -hook, H, adapted to engage a link of a trace-chain or a ring attached to a leather trace. The trace or tug being supported by the hook, causes the latter to vibrate to and fro, in accordance with the movements of the animal, while the plate remains steady in its position against the side of the animal, being held by the back-band.

In order to provide against the slipping of the plate upward or downward, the lower slot through which the back-band passes is provided with teeth K to engage the band.

L represents a ring or loop formed at the upper portion of the stay, and adapted for the passage of a plow-line.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. The horizontally-slotted back-band plate, having a vertical central stay connected thereto, the pivot-bearing connecting the plate and stay, and the pendent vibratory trace-hook pivoted on said bearing, substantially as specified.

2. The back-band plate having an outer stay and a pendent pivotal trace-carrier having its lower end turned outward in \neg -form, substantially as specified.

3. The back-band plate having a pendent vibratory trace-hook between said plate and a stay, and at the upper end of the latter a ring or loop for the passage of a plow-line, substantially as specified.

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

FRANK HAYNES.

Witnesses:

R. P. SHELTON,
JNO. J. CONE.