

(No Model.)

H. P. JOHNSON.

TRACE CARRIER.

No. 389,890.

Patented Sept. 25, 1888.

Fig. 1.

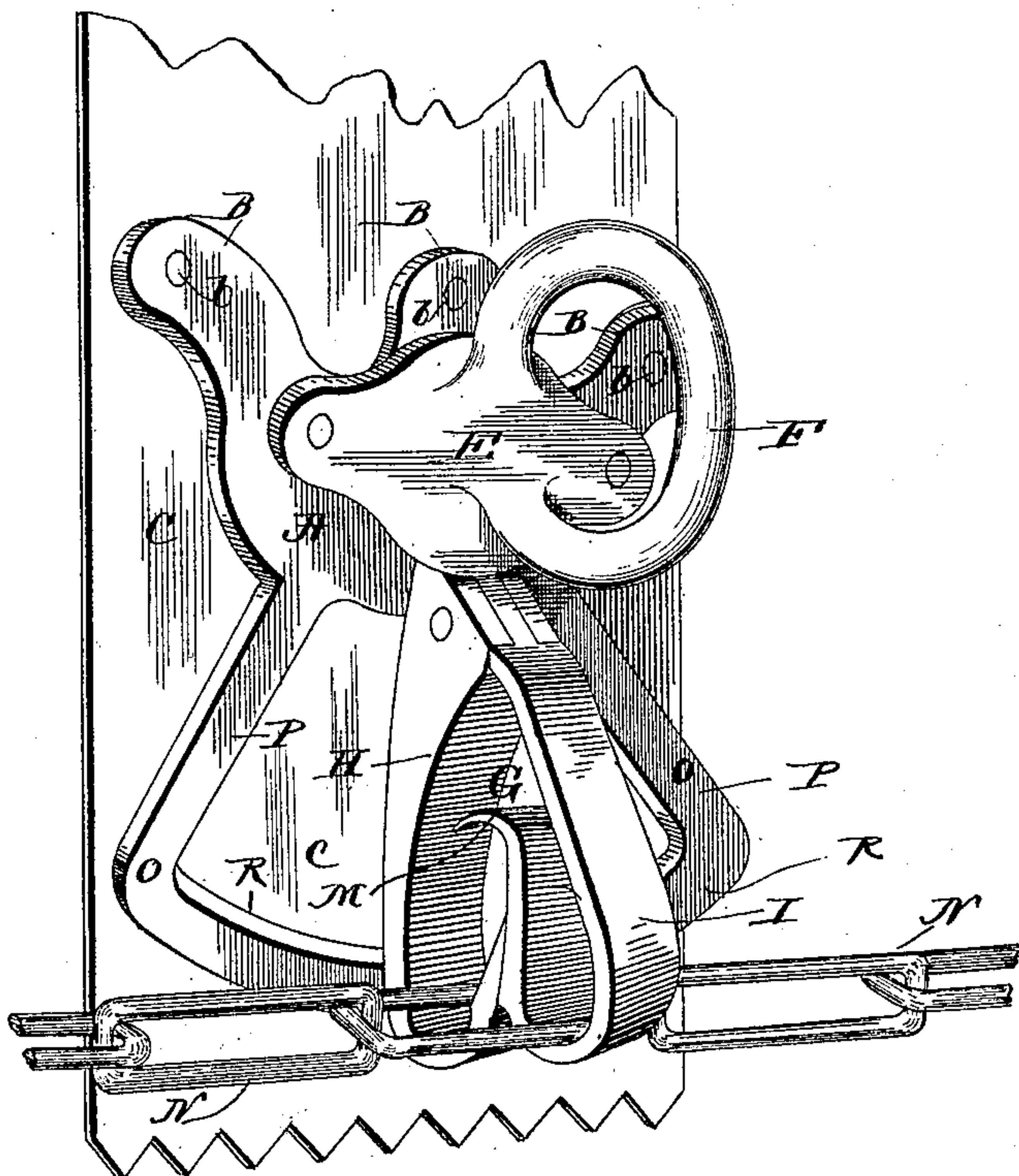
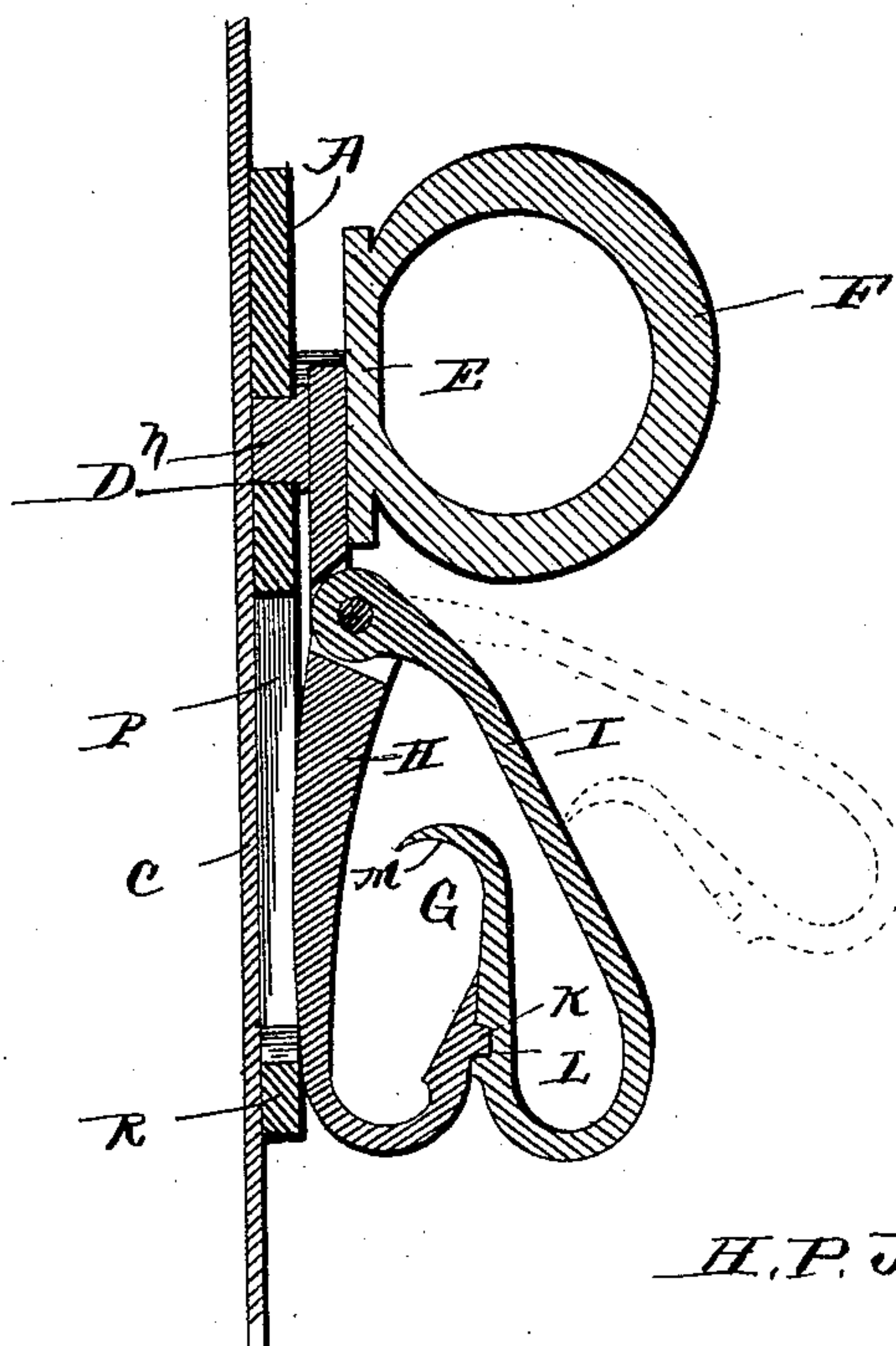


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

HIRAM POLK JOHNSON, OF BRYANTSVILLE, KENTUCKY.

TRACE-CARRIER.

SPECIFICATION forming part of Letters Patent No. 389,890, dated September 25, 1888.

Application filed June 7, 1888. Serial No. 276,407. (No model.)

To all whom it may concern:

Be it known that I, HIRAM POLK JOHNSON, a citizen of the United States, residing at Bryantstown, in the county of Garrard and State of Kentucky, have invented new and useful Improvements in Trace-Chain Carriers, of which the following is a specification.

My invention relates to improvements in trace-chain carriers having for their object to simplify, strengthen, and cheapen the construction of carriers, and provide improved means for securing the chain therein.

The invention consists in a certain novel construction and arrangement of devices fully set forth hereinafter in connection with the accompanying drawings, wherein—

Figure 1 is a perspective view of the improved carrier applied in the operative position to a back-band and having a section of a trace-chain passing therethrough. Fig. 2 is a vertical central sectional view of the carrier with the pivoted hook swung outward in dotted lines.

Referring to the drawings, A designates the base-plate of the carrier, which is provided with the divergent apertured arms B B B, secured by rivets *b b* to the back-band or webbing C. The center of the base-plate is provided with a bearing, D, and on the plate, over the said bearing, is arranged a bracket, E, having a ring, F, secured thereto, through which to pass the plow-line.

The loop G consists of the swinging hook H and the pivoted hook I. The swinging hook is arranged at its upper end between the bracket and the base-plate, and is provided on its rear side with a trunnion or spindle, *h*, which is mounted in the bearing in the base-plate. The hook I is pivoted at its upper end to the front side of the hook H, and is arranged with its open side inward to oppose the open side of the hook H, whereby the upturned ends of the hooks bear against each other, and thus form a vertical projection in the lower end of the loop G. The upturned end of the hook H is provided with a stud or projection, K, to fit in a corresponding socket or depression, L, in the upturned end of the hook I, whereby the lateral strain upon the loop will be borne by both hooks equally. The extremity of the upturned end of the hook I is provided with an inturned lip, M, which ex-

tends within a short distance of the rear side of the hook H. The trace-chain N passes through the loop, and opposite sides of one of the links of the chain are engaged, respectively, in the hooks H I, whereby, although the link is readily engaged in the loop by swinging the hook I outward, it cannot be readily detached (accidentally) for the reason that it locks the said hooks together. The lip on the end of the hook I is employed to prevent the link, which is within the loop, from being disengaged from the ends of both hooks when the chain is shaken vertically by the motion of the animal.

It will be seen that the loop G is capable of free forward and backward swing, and to prevent this movement from wearing the band or webbing I provide a guide-frame, O, which depends from the base-plate and comprises the divergent side bars, P P, and the segmental track-bar R, the ends of which are secured or formed integral with the lower ends of the said side bars.

Having thus described the invention, I claim—

1. In a trace-chain carrier, the combination of the base-plate having a bearing, D, the bracket carrying a line-ring secured to base-plate over the bearing, and the loop comprising the hook H, provided with a trunnion or spindle on its rear side at the upper end, mounted in the bearing D, and the hook I, pivoted to the hook H, substantially as and for the purpose specified.

2. In a trace-chain carrier, the combination, with the base-plate, of the swinging loop pivoted to the plate, and the bracket arranged over the pivoted end of the loop and provided with a line-ring, substantially as specified.

3. In a trace-carrier, the hook H, having an upturned end, in combination with the hook I, pivoted to and facing the hook H, and provided with an upturned end bearing against the upturned end of the hook H, the contiguous upturned ends of the said hooks being adapted to pass through a link of the trace-chain, substantially as specified.

4. In a trace-chain carrier, the swinging loop comprising the pivoted hook H, having a projection, K, on its upturned end, and the hook I, pivoted to and facing the hook H, and provided on its upturned end with a depression

or socket, L, fitting over the stud K, the said
upturned ends of the hooks being adapted to
pass up through a link of the trace-chain,
whereby the link locks the hooks together,
5 substantially as specified.

5. In a trace-chain carrier, the combination,
with the inner hook, H, having an upturned
free end, of the hook I, pivoted to and facing
the hook and bearing at its free upturned end
10 against the free end of the hook H, and the
upturned lip M on the extremity of the up-

turned end of the hook I, adapted to prevent
the engaged link of the trace-chain from be-
ing raised from the free contacting ends of the
hooks, substantially as specified. 15

In testimony that I claim the foregoing as my
own I have hereto affixed my signature in pres-
ence of two witnesses.

HIRAM POLK JOHNSON.

Witnesses:

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GEO. R. BEAZLEY.