

(No Model.)

P. F. RACHAL.
HORSE DETACHER.

No. 465,388.

Patented Dec. 15, 1891.

FIG. 1.

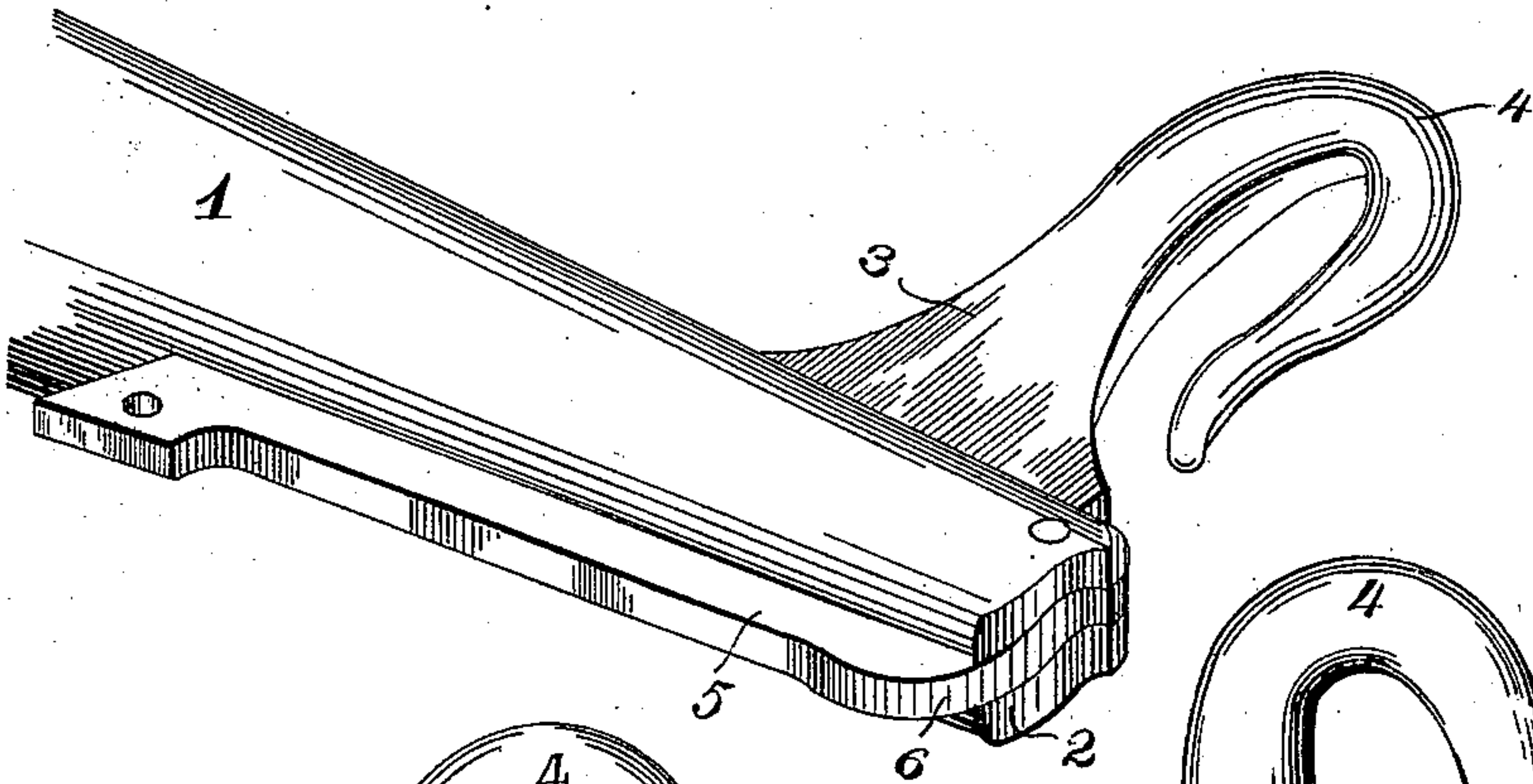


FIG. 2.

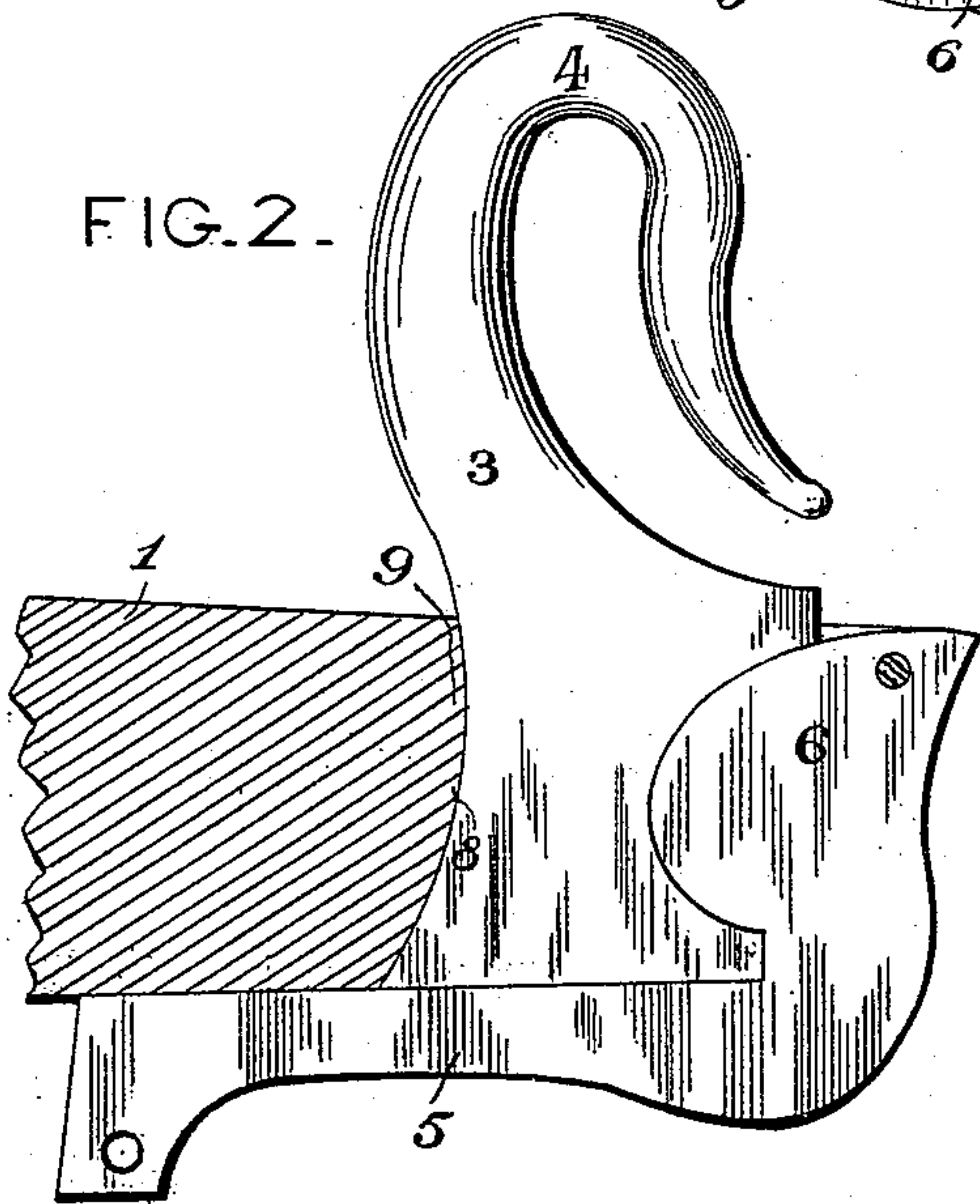
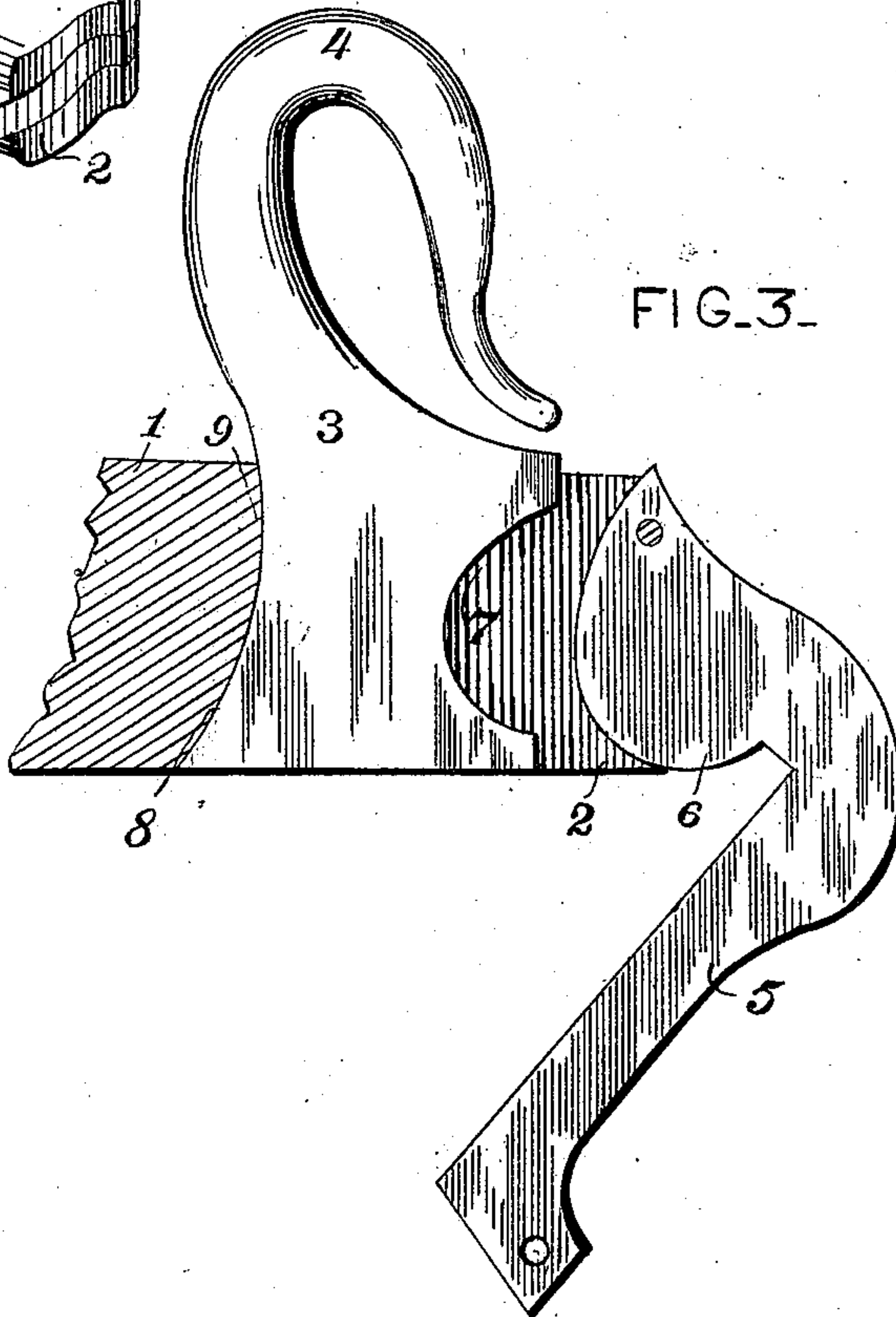


FIG. 3.



Witnesses:

Inventor

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By his Attorneys,

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UNITED STATES PATENT OFFICE.

PAUL FIRMIN RACHAL, OF FORT JESUP, LOUISIANA.

HORSE-DETACHER.

SPECIFICATION forming part of Letters Patent No. 465,388, dated December 15, 1891.

Application filed April 25, 1891. Serial No. 390,449. (No model.)

To all whom it may concern:

Be it known that I, PAUL FIRMIN RACHAL, a citizen of the United States, residing at Fort Jesup, in the parish of Sabine and State of Louisiana, have invented a new and useful Whiffletree, of which the following is a specification.

The invention relates to improvements in whiffletrees.

10 The object of the present invention is to simplify and improve the means for attaching traces to a whiffletree, to enable the traces to be quickly released and secured to facilitate harnessing, and to prevent accident to a vehicle and its occupants in case of a runaway.

15 The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

20 In the drawings, Figure 1 is a perspective view of an end of a whiffletree constructed in accordance with this invention. Fig. 2 is a longitudinal sectional view of the same, the whiffletree-hook and the locking-lever not being sectioned. Fig. 3 is a similar view, the locking-lever being shown in position for releasing the whiffletree-hook.

Referring to the accompanying drawings, 30 1 designates a whiffletree having its end 2 bifurcated and adapted to receive the shank 3 of a whiffletree-hook 4, which is secured in the recess or bifurcation by a locking-lever 5. The locking-lever 5 is provided with an enlargement or head 6, which is eccentrically 35 pivoted in the bifurcation and forms a cam to engage the curved recess 7 in the side edge of the shank 3 of the whiffletree-hook 4. The whiffletree-hook has its shank provided with 40 recesses 7 and 8, the former of which is engaged by the lever and the latter conforms to the curved wall 9 of the bifurcation. By this construction the shank is provided with an enlarged end and a narrow portion or neck, 45 which is clamped, and the enlarged end prevents the withdrawal of the shank, and the strain on the whiffletree-hook is partially exerted on the head of the locking-lever, which

prevents the latter becoming accidentally unlocked. When the lever is locked, it lies 50 against the whiffletree and parallel therewith and may be readily separated therefrom to carry the cam or head out of engagement with the recess 7 to release the whiffletree-hook.

The enlargement or head 6 is arranged at 55 right angles to lever 5 and has its outer edge slightly concaved and its inner edge convexly curved similar to one side of a heart, and the head is pivoted near its outer end.

It will readily be seen that the whiffletree-hook can be readily secured to the whiffletree 60 and released therefrom, thereby enabling a horse to be readily detached to prevent accident to a vehicle or its occupants and to facilitate hitching and unhitching, and the whiffletree-hook and locking-lever can be 65 readily arranged at either end of a whiffletree without changing the construction.

What I claim is—

1. The combination of a whiffletree having 70 its end bifurcated, an independent whiffletree-hook fitting in the bifurcation and being entirely removable therefrom when not in use, and a lever pivoted in the bifurcation and detachably securing the whiffletree-hook to 75 the whiffletree, substantially as described.

2. The combination of a whiffletree having 80 its ends bifurcated and provided with the curved wall, the independent whiffletree-hook entirely removable from the whiffletree when not in use and having its shank provided with the curved recesses 7 and 8, and the locking-lever provided with an enlargement or head eccentrically pivoted in the bifurcation and having its inner edge convexly curved 85 and forming a cam engaging the recess 7 and detachably securing the whiffletree-hook to the whiffletree, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 90 presence of two witnesses.

PAUL FIRMIN RACHAL.

Witnesses:

WM. H. BARBEE,
AMOS L. PONDER.