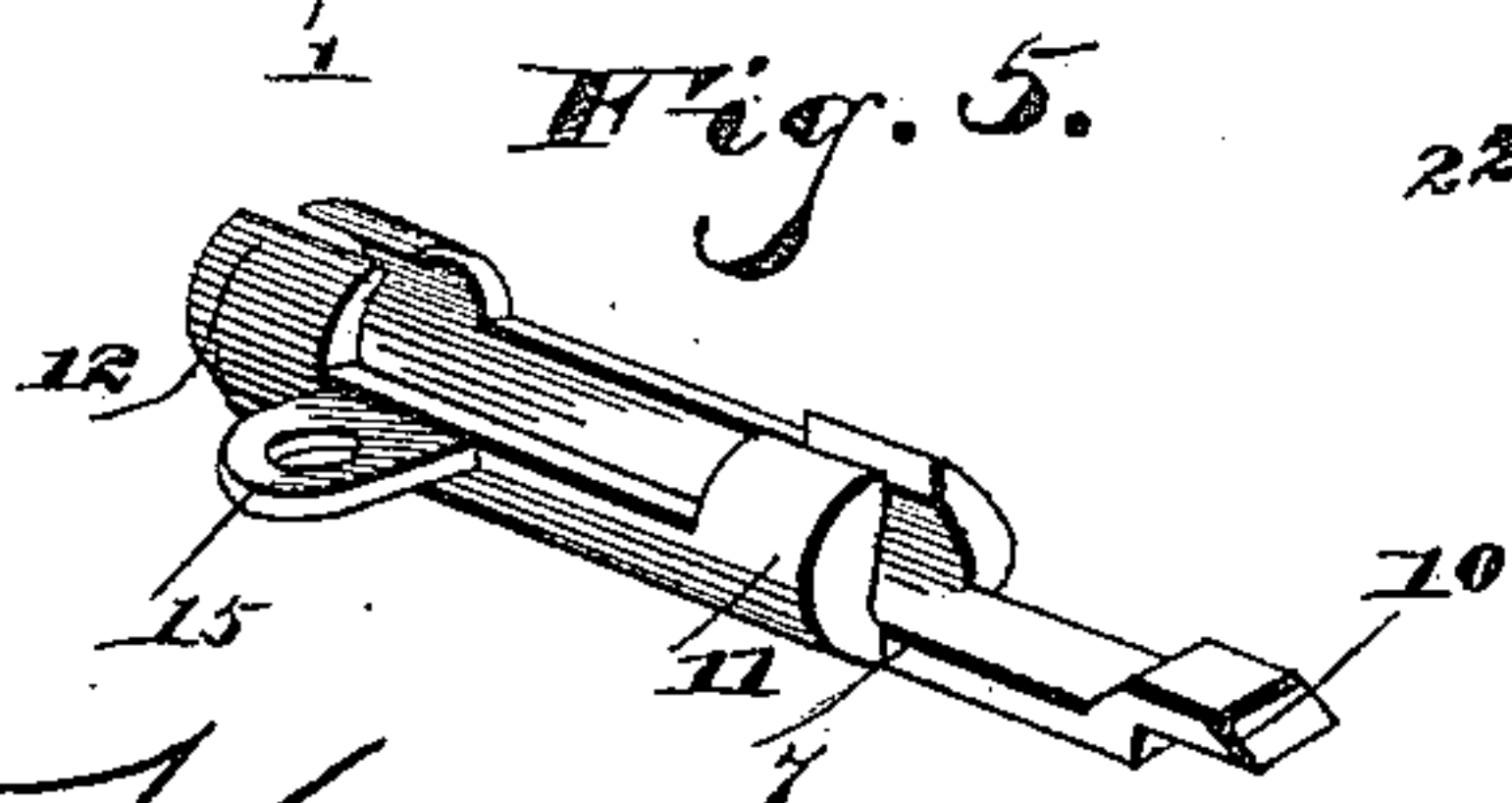
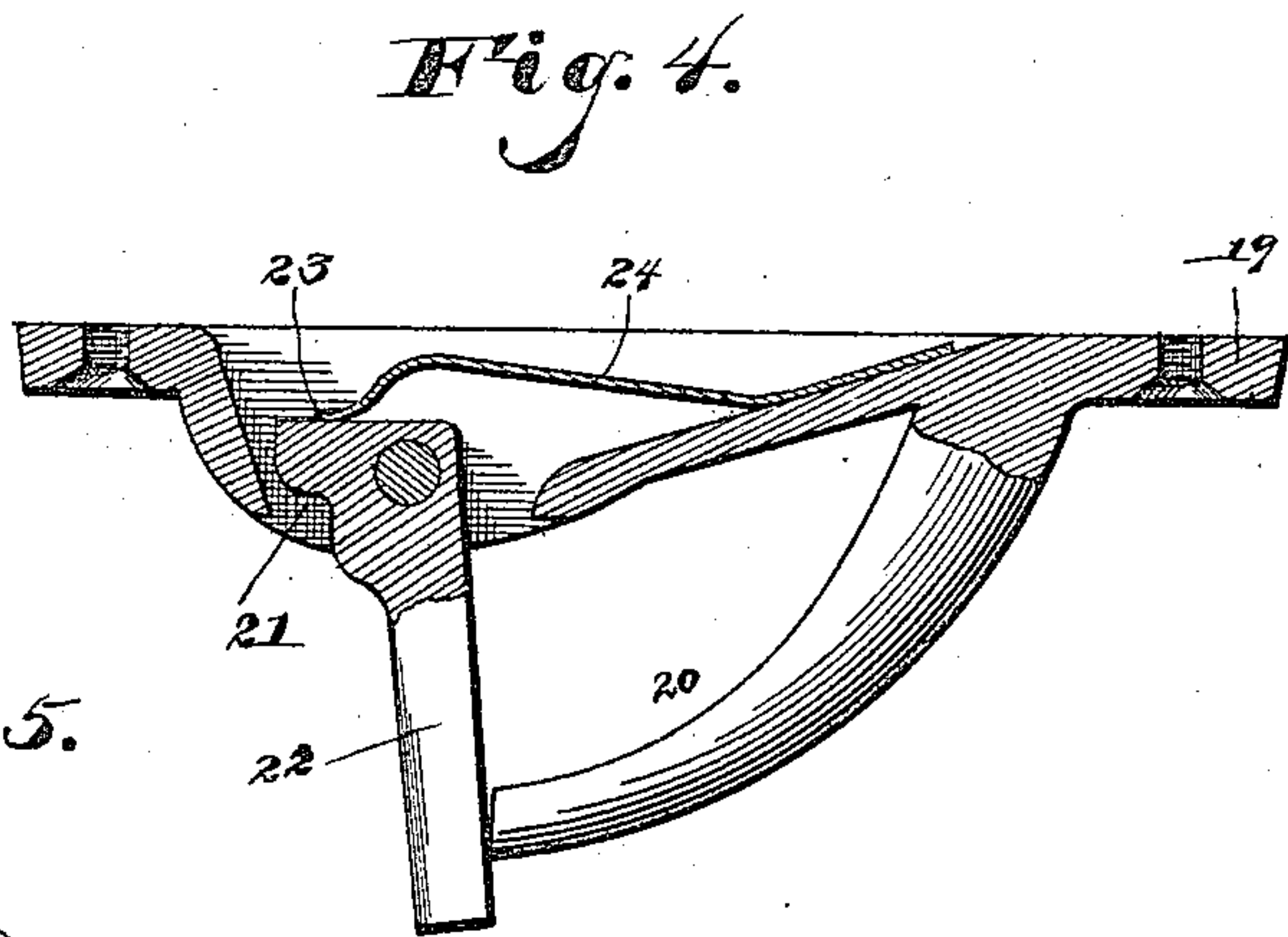
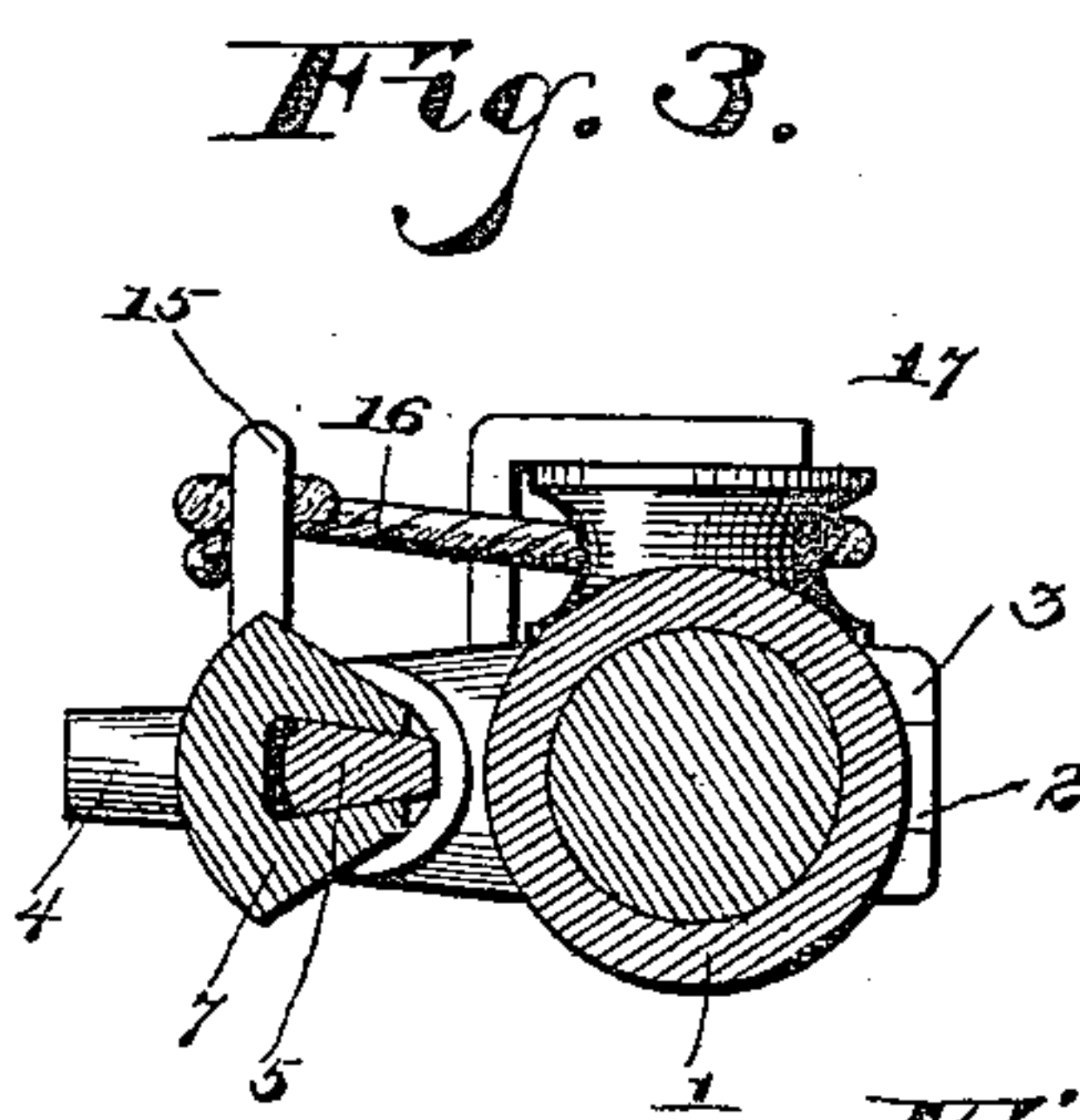
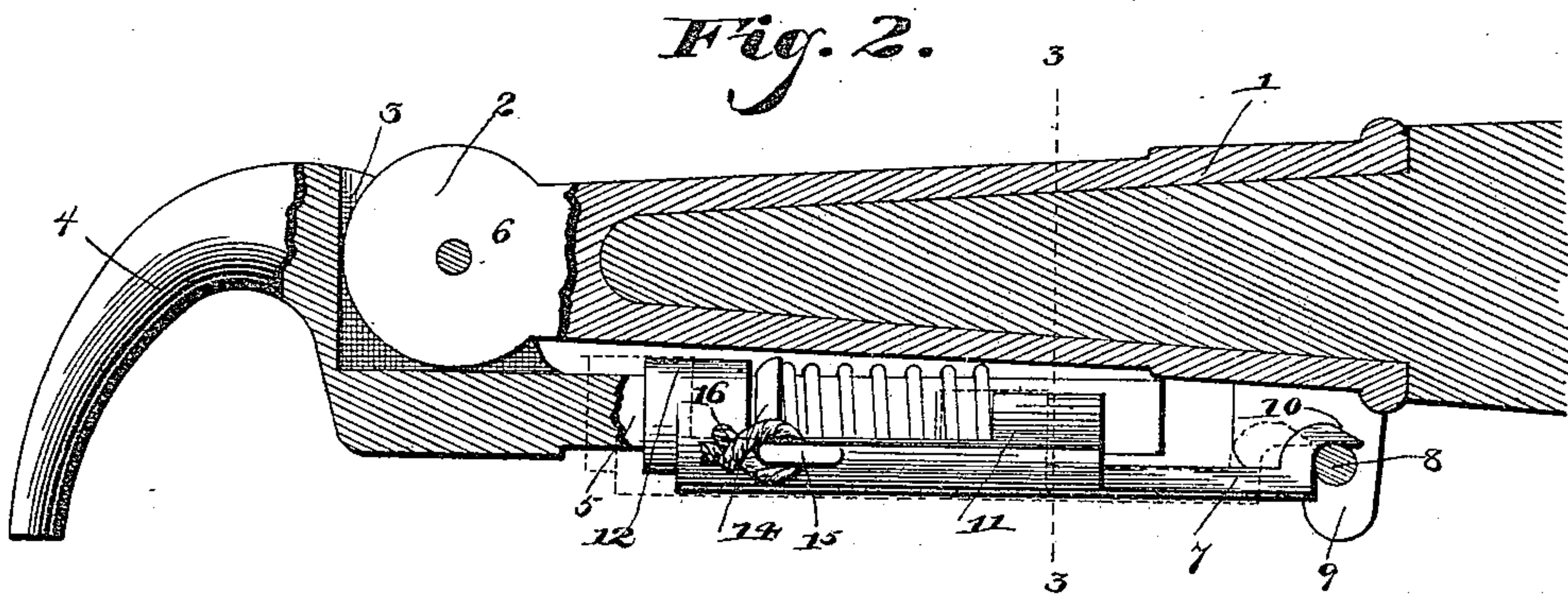
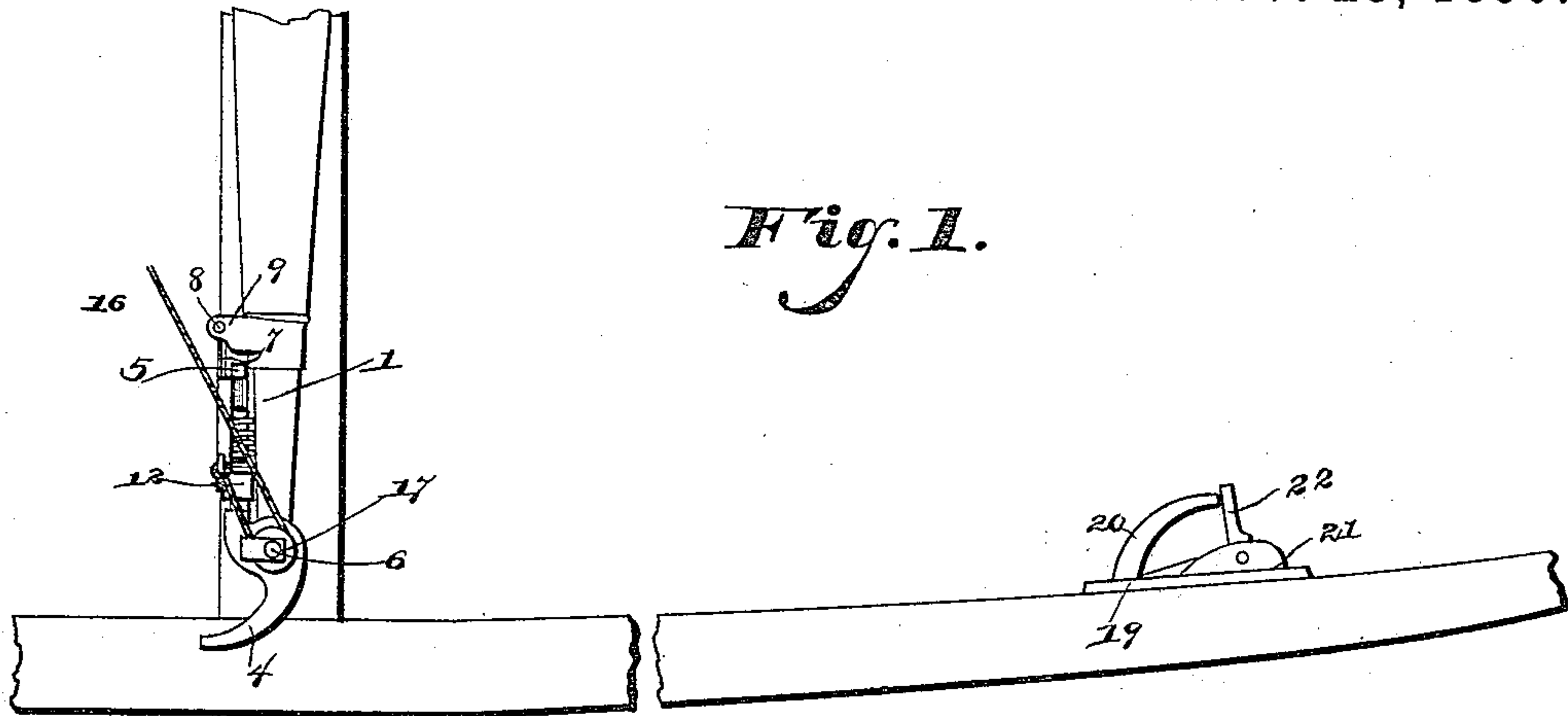


(No Model.)

H. BERG.
HORSE DETACHER.

No. 441,125.

Patented Nov. 25, 1890.



Witnesses

Samuel Ker,
J. F. Riley

By his Attorneys,

Cash & Co.

Inventor

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UNITED STATES PATENT OFFICE.

HERMEN BERG, OF COLUMBUS, OHIO.

HORSE-DETACHER.

SPECIFICATION forming part of Letters Patent No. 441,125, dated November 25, 1890.

Application filed June 18, 1890. Serial No. 355,859. (No model.)

To all whom it may concern:

Be it known that I, HERMEN BERG, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a new and useful Horse-Detacher, of which the following is a specification.

The invention relates to improvements in horse-detachers.

10 The object of the present invention is to provide simple and inexpensive devices adapted to be readily attached to the shafts and whiffletree of a vehicle, and capable of releasing the animal when desired.

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 partial plan view of a whiffletree and shaft, showing a trace-hook and holdback constructed in accordance with this invention applied in operative position. Fig. 2 is a central longitudinal sectional view of the whiffletree and its trace-hook. Fig. 3 is a transverse sectional view, partly in elevation, on the line 3-3, Fig. 2. Fig. 4 is a sectional view of the holdback. Fig. 5 is a detail view of the spring-actuated latch for locking the trace-hook.

30 Referring to the accompanying drawings, 1 designates a metal socket adapted to be fitted upon the end of a whiffletree, and provided at its outer end with an eye 2, which is pivoted in a bifurcation 3 of a trace-hook 4, that is pivoted to the socket and is adapted to be swung at right angles thereto to allow a trace to readily slip from the hook and release the animal. The hook is provided with an arm 5, that extends upon the opposite side of the pivot 6, that passes through the eye 2 and bifurcated portion 3, and the said arm is adapted to lie parallel with the socket when the trace-hook is in operative position, and is provided with a spring-actuated latch 7, arranged to engage a pin 8, secured to and connecting parallel ears 9, formed integral with the socket, and the end 10 of the latch is beveled to adapt the latch to readily engage the pin. The latch is provided with integral flanges 11 and 12, the latter of which partially encircle the arm and secure the latch thereto, and a spring

13 is interposed between the flanges 11 and a shoulder 14 and holds the latch normally in engagement with the pin 8. The latch is provided upon one side with an integral eye 15, to which is secured a cord 16, that passes around a pulley 17, situated on the upper side of the hook and extends to within easy reach of the driver, and is adapted to be pulled upon to return the latch against the action of the spring and allow the trace-hook to turn on its pivot and release the trace. The pivot 6 is extended upward from the face of the trace-hook and journals the pulley 17, which is supported by an L-shaped arm 18, formed integral with the trace-hook.

The shafts of the vehicle are provided with holdbacks comprising a casting having a base-plate 19 and a curved arm 20, and the said casting is provided with integral ears 21, between which is pivoted a bar 22, that has its foot 23 engaged by the free end of a spring 24, that normally holds the free end of the bar into engagement with the end of the curved arm to close the opening thereof and secure the holdback, and when the traces are released from the trace-hook the holdbacks engage the pivoted bars and move them against the action of the springs and are thereby released.

From the foregoing description and the accompanying drawings the construction, operation, and advantages of the invention will readily be understood, and it will be seen that the latch in its position on the arm protects the spring and prevents the device becoming inoperative.

Having described my invention, what I claim is—

1. In a horse-detacher, the combination of the socket adapted to be fitted on the end of a whiffletree, and the trace-hook pivoted to the outer end of the socket and projecting beyond the same, and provided with a spring-actuated latch arranged at its inner end to engage the socket, substantially as and for the purpose described.

2. In a horse-detacher, the combination of the socket adapted to be fitted on the end of a whiffletree and having the eye 2 at its outer end, and provided with the ears 9 and the pin 8, the trace-hook pivoted to the eye 2 of the socket and provided with the arm, and

the spring-actuated latch mounted upon the arm and arranged to engage the pin 8, substantially as described.

3. In a horse-detacher, the combination of
5 the socket, the whiffletree-hook pivoted to the socket and provided with the inwardly-extending arm, the spring-actuated latch arranged upon the arm and adapted to engage the socket, and provided with an eye, the roller
o pivoted to the trace-hook, and the cord secured to the eye and passing around the roller, substantially as described.

4. In a horse-detacher, the combination of
5 the socket adapted to receive the end of a whiffletree and provided with the integral ears, and the pin connecting the ears, the whiffletree-hook pivoted to the socket and having an arm provided with a shoulder, the

latch sliding upon the arm and provided with flanges engaging the same, and a spring inter- 20 posed between the shoulder of said arm and adapted to force the latch into engagement with said pin, the L-shaped arm formed integral with the trace-hook, the roller pivoted between the L-shaped arm and the trace- 25 hook, and the cord secured to the latch and passing around the roller, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature 30 in presence of two witnesses.

HERMEN BERG.

Witnesses:

JACOB F. LONG,
HENRY OLUHAUSEN.