

No. 732,963.

PATENTED JULY 7, 1903.

J. H. ROYER.
CHECKREIN HOOK.

APPLICATION FILED APR. 2, 1903.

NO MODEL.

Fig. I.

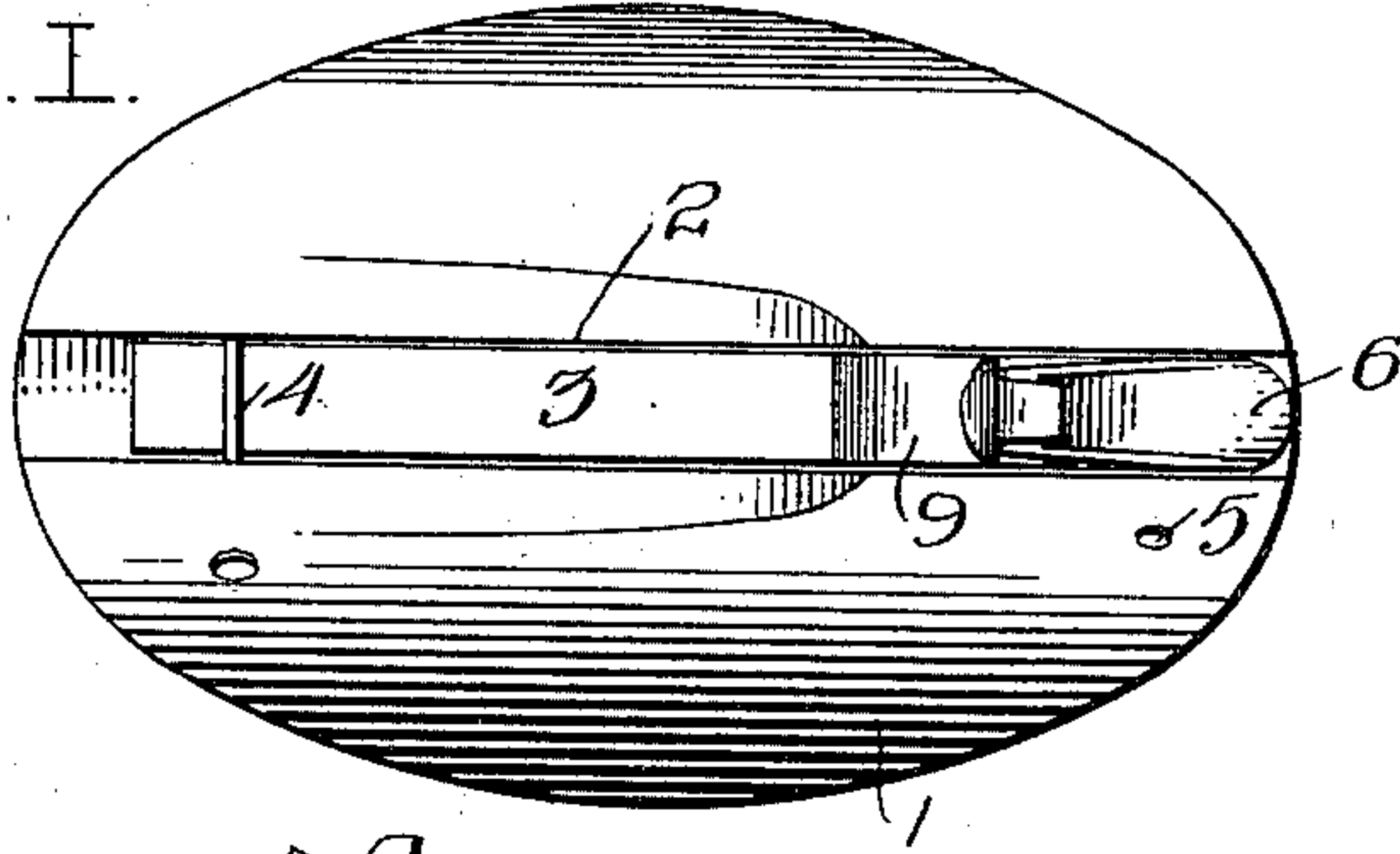


Fig. 2.

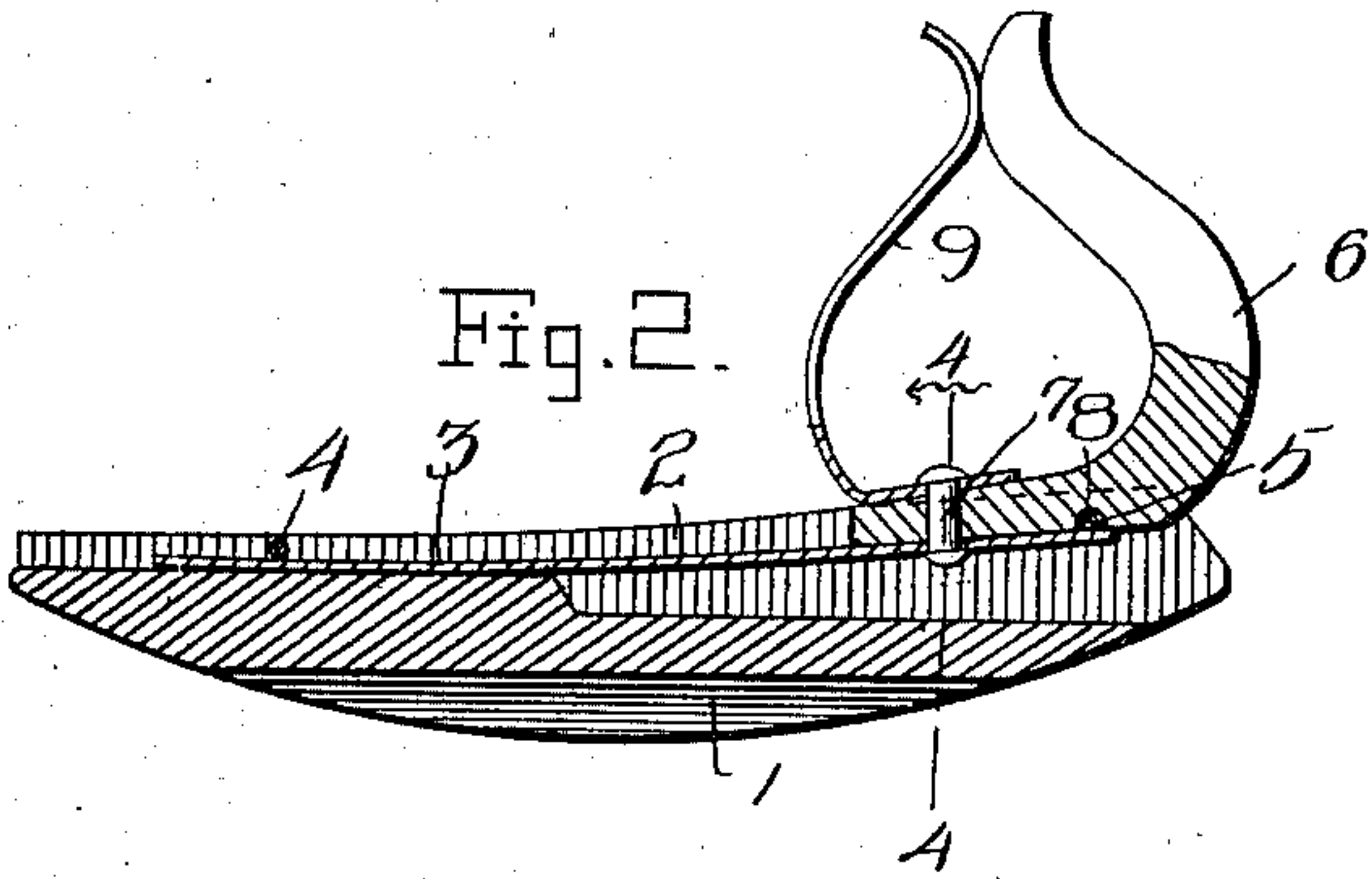


Fig. 3.

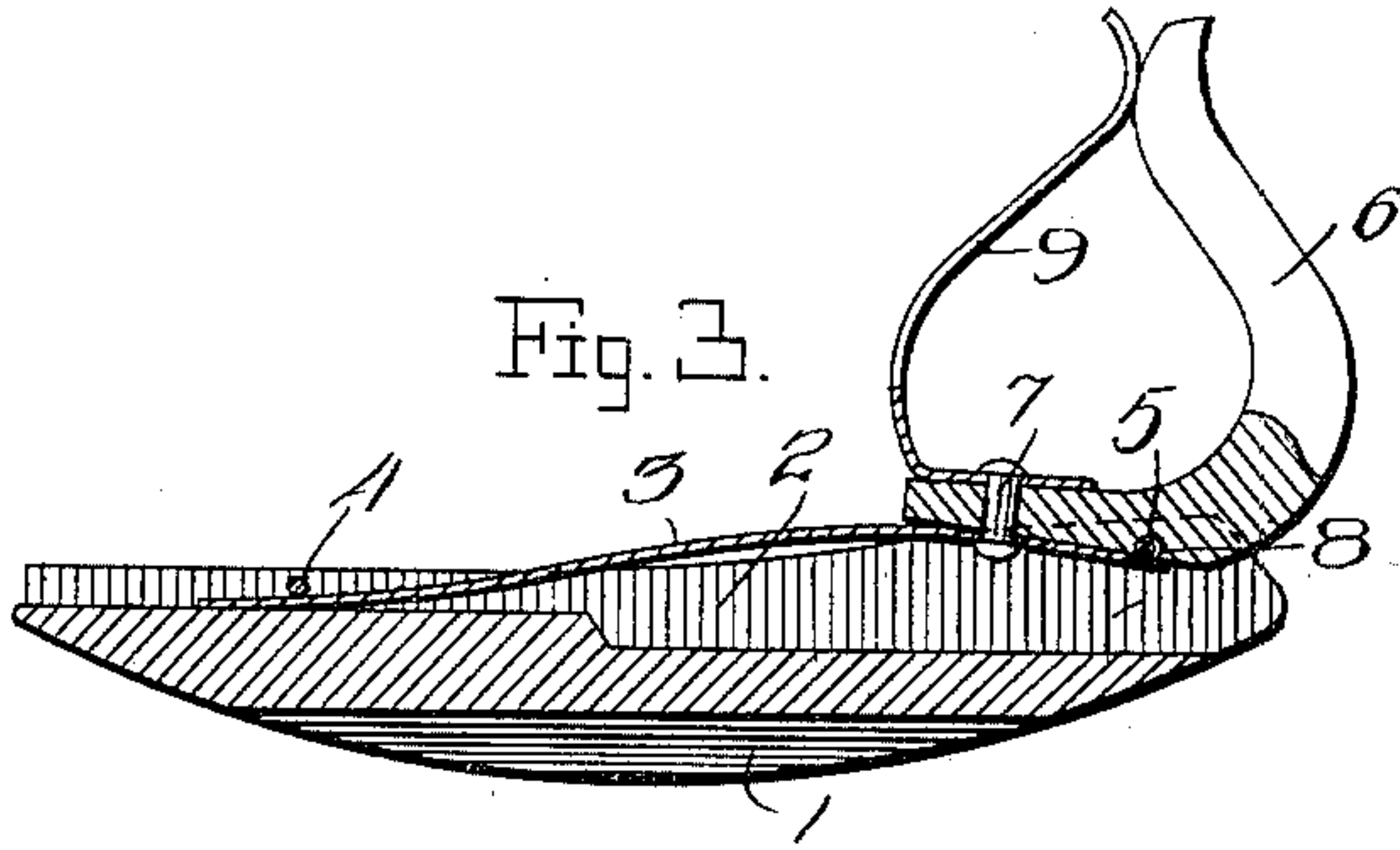
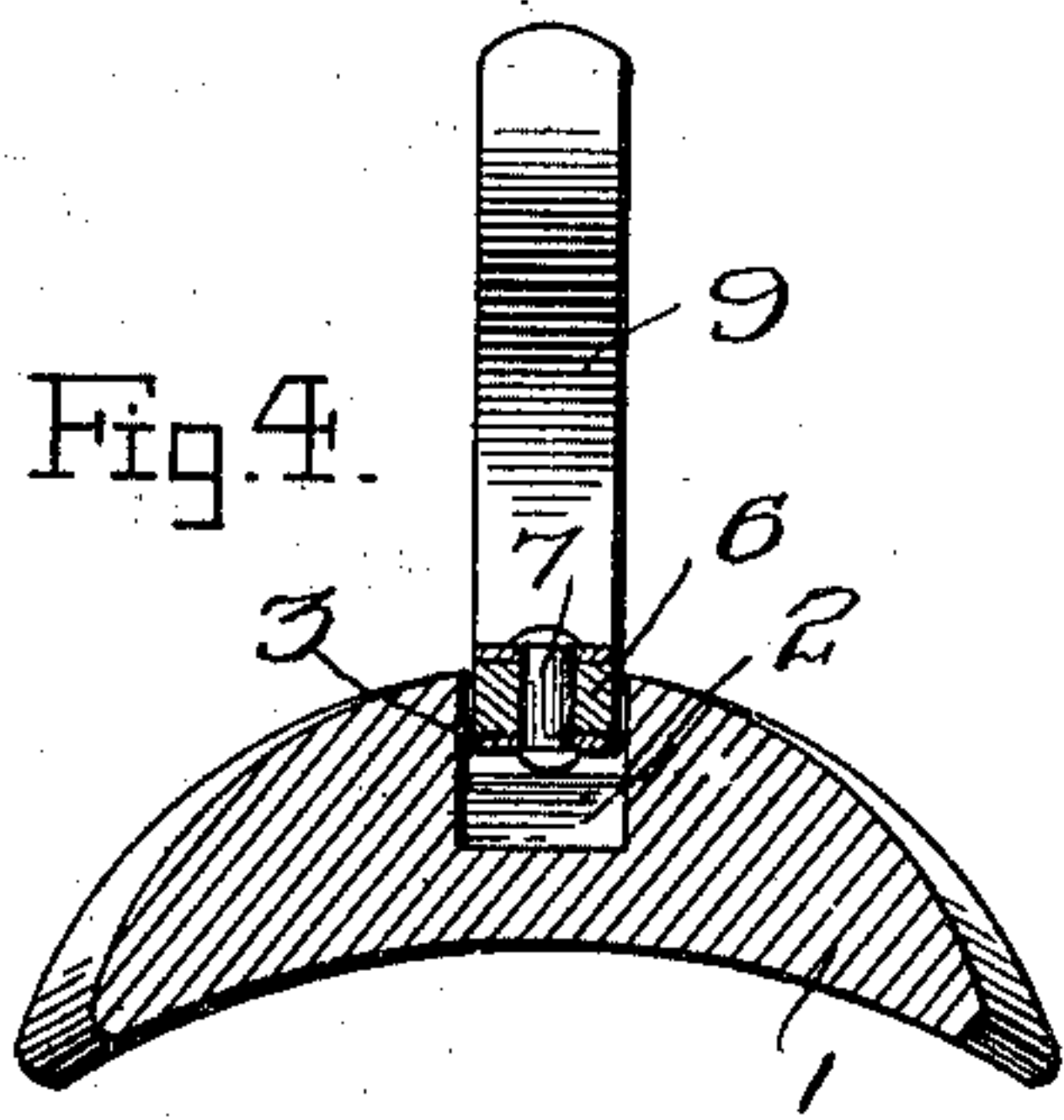


Fig. 4.



Inventor

John H. Royer.

Witnesses

E. St. Kevichombach.

[Signature]

By

[Signature]

Attorney.

UNITED STATES PATENT OFFICE.

JOHN H. ROYER, OF CEDARVILLE, ILLINOIS.

CHECKREIN-HOOK.

SPECIFICATION forming part of Letters Patent No. 732,963, dated July 7, 1903.

Application filed April 2, 1903. Serial No. 150,782. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. ROYER, a citizen of the United States, residing at Cedarville, in the county of Stephenson and State of Illinois, have invented certain new and useful Improvements in Checkrein-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.

This invention relates to certain new and useful improvements in spring-hooks for checkreins.

The object of the invention is to provide a device of this character which is simple in construction, durable in use, efficient in operation, and comparatively inexpensive of production.

With these and other objects in view the invention consists of certain novel features of construction, combination and arrangement of parts, as will be more fully described, and particularly pointed out in the appended claims.

In the drawings, Figure 1 is a top plan view of a harness-saddle and checkrein-hook embodying my invention. Fig. 2 is a vertical longitudinal sectional view through the same. Fig. 3 is a similar view showing the position the parts assume when there is a great strain upon the hook. Fig. 4 is a transverse sectional view taken on the line 4 4 of Fig. 2.

Referring to the drawings by numeral, 1 denotes the harness-saddle, which may be of any desired construction and which is provided with a central longitudinal groove or channel 2. 3 denotes a flat spring of a width corresponding to the width of said groove in which it is seated and of slightly less length than the saddle. The rear end of this spring is held down by the pin 4, which extends across the groove or channel above the same. 5 denotes a similar pin projecting across the forward end of the groove above the spring 3. The check-hook 6 is secured upon the forward portion of the spring by the rivet or bolt 7. Said hook has formed on its bottom the notch or recess 8, which engages the pin 5 and forms a pivot-bearing for said hook. The notch 8 is held upon said pin 5 by the end of the spring 3 in advance of the rivet 7. It will be noticed that by this construction

the hook will be pivoted in the groove the same as if the pin passed through the hook, and at the same time said hook may be easily and quickly detached without removing the pin 5. In order to prevent the casual disengagement of the check-strap or check-strap ring from the hook, I provide the S-shaped retaining-spring 9, the free end of which bears against the top end of the hook, and its opposite end is held upon the base of the hook by the rivet or bolt 7, as clearly shown in Fig. 2.

The operation of the device will be clearly understood upon reference to Figs. 2 and 3. When there is a great strain upon the checkrein—such, for instance, as when the horse stumbles—the hook will give, as seen in Fig. 3, since it is pivoted upon the pin 5 and is held down by the spring 3. As soon as the strain is removed said spring will restore the hook to its proper position. The spring 9, as previously explained, will prevent any casual unchecking of the rein, and it will be noticed that the hook and springs may be readily taken off and apart for cleaning and repairs.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

1. In a checkrein-hook, the combination with a harness-saddle, of a spring loosely mounted thereon, a hook secured to said spring and having a pivotal connection with said saddle and a retaining-spring upon said hook, substantially as described.

2. In a checkrein-hook, the combination with a harness-saddle having a groove or channel therein, of a flat spring loosely retained in said channel, a pin in said channel, a hook secured to said spring and provided with a notch or bearing, adapted to engage said pin, substantially as described.

3. In a checkrein-hook, the combination

with a harness-saddle having a groove or
channel therein, of a flat spring loosely re-
tained in said channel, a pivot-pin in one end
of said channel, a hook secured to the said
5 spring and provided with a bearing-notch
adapted to engage said pin and be retained
thereon by said spring, and a retaining-spring
upon said hook, substantially as described.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit- 10
nesses.

JOHN H. ROYER.

Witnesses:

A. M. LAUSCH,
ALMA RICHART.