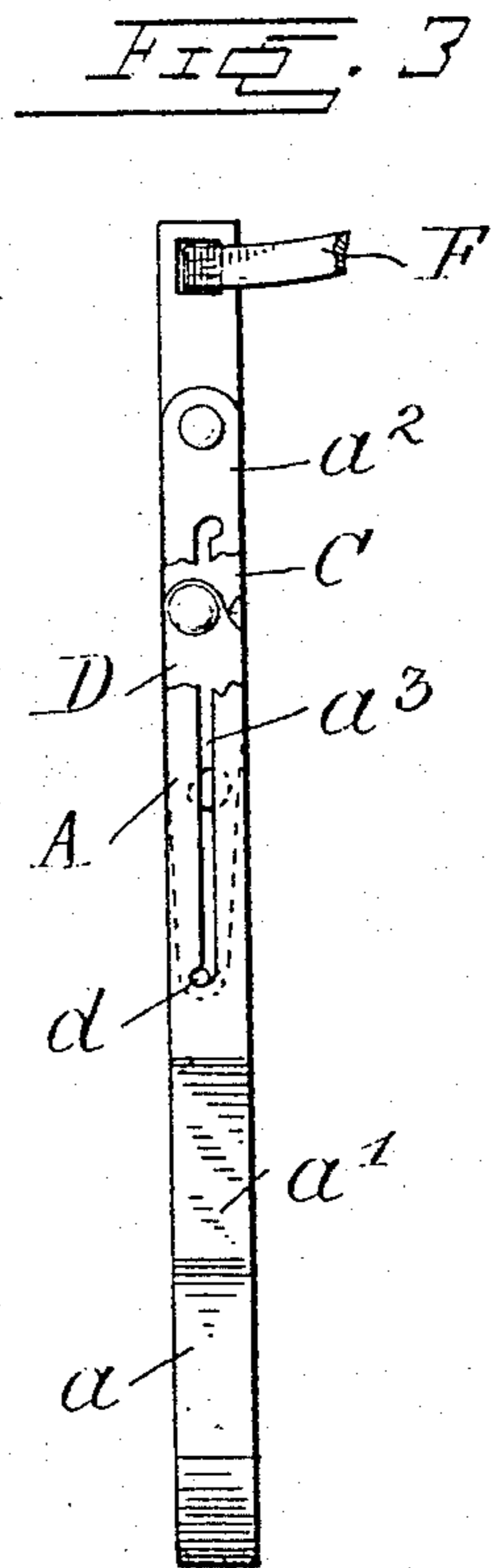
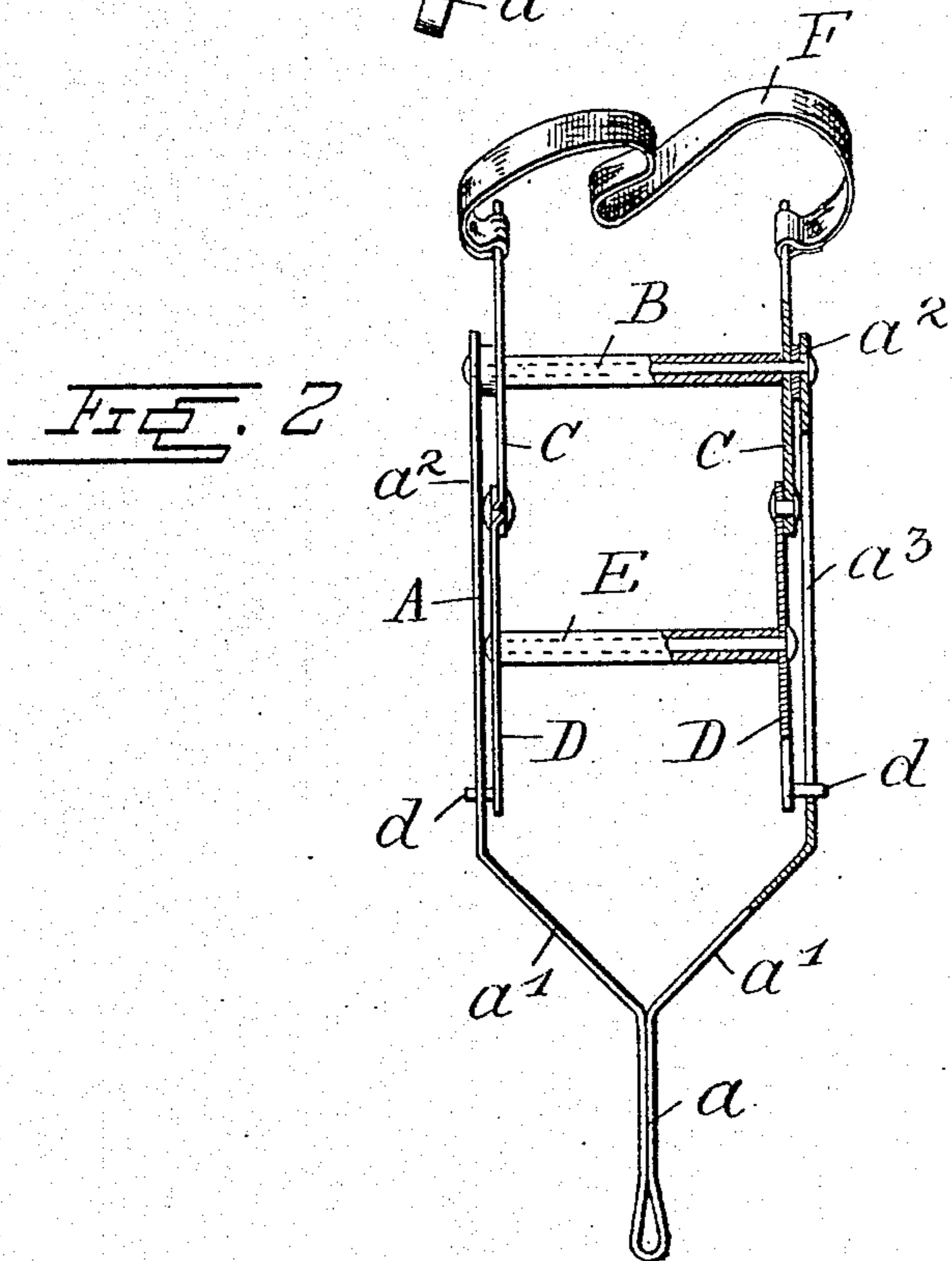
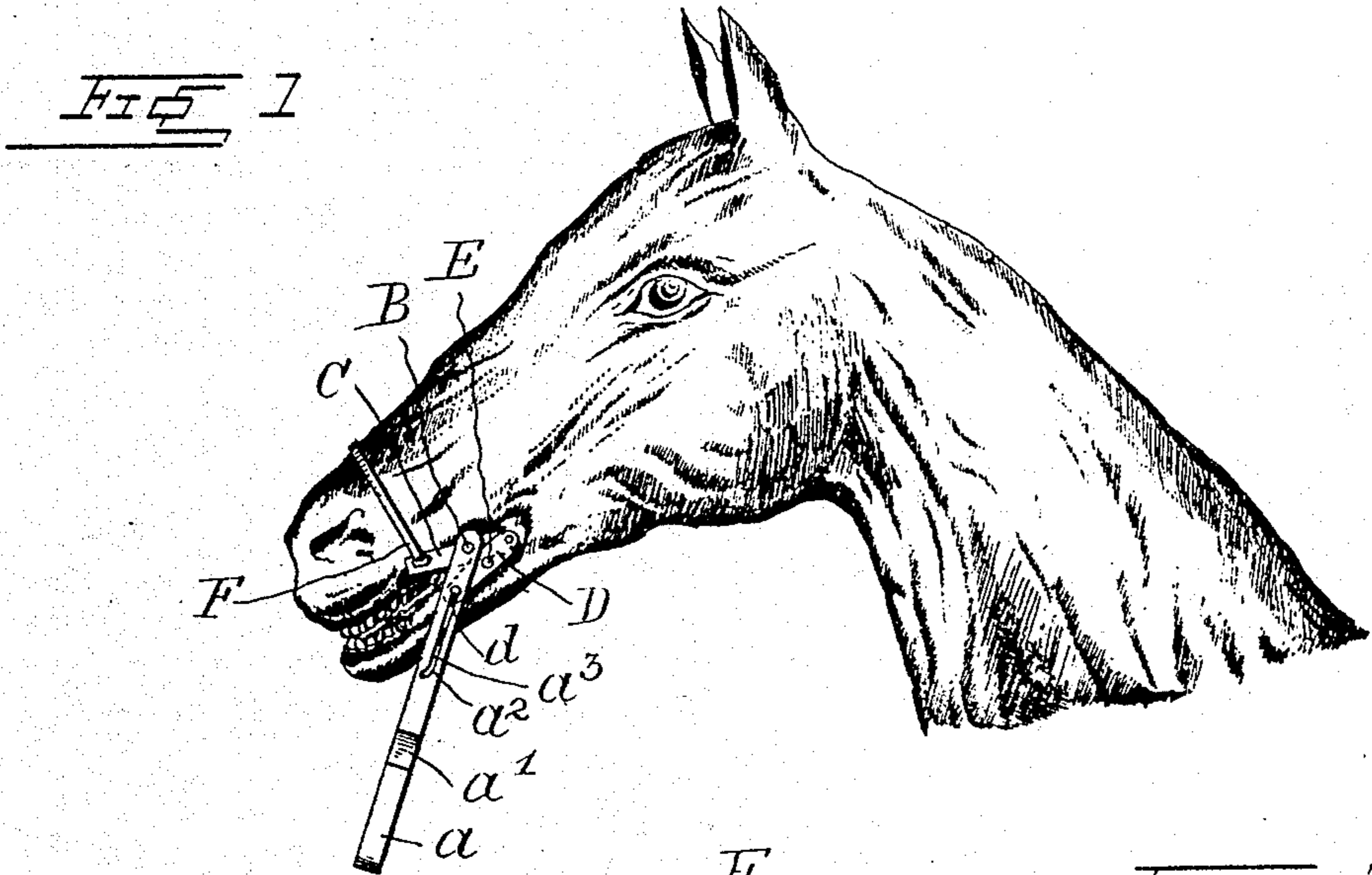


No. 803,418.

PATENTED OCT. 31, 1905.

J. HINEMAN.  
DRENCHING BIT.

APPLICATION FILED MAY 25, 1905.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JAMES HINEMAN, OF IRONDALE, OHIO.

## DRENCHING-BIT.

No. 803,418.

Specification of Letters Patent.

Patented Oct. 31, 1905.

Application filed May 25, 1905. Serial No. 262,298.

*To all whom it may concern:*

Be it known that I, JAMES HINEMAN, a citizen of the United States, and a resident of Irondale, in the county of Jefferson and State of Ohio, have invented certain new and useful Improvements in Drenching-Bits, of which the following is a specification.

My invention is an improvement in drenching-bits; and it consists in certain novel constructions and combinations of parts herein-after described and claimed.

Referring to the drawings forming a part hereof, Figure 1 is a perspective view of my improvement in position in the horse's mouth. Fig. 2 is a plan view of the bit, and Fig. 3 is a side view thereof.

In the practical application of my invention I provide a yoke A, comprising a handle portion  $a$ , the diverging branches  $a'$ , and the parallel arms  $a''$ , having therein the longitudinal slots  $a^3$ . A bit-bar B connects the free ends of the yoke-arms, and a pair of parallel arms C are pivoted through their centers on the bit-bar within the yoke-arms. A second pair of parallel arms D are pivoted to the inner ends of the first-named pair and are provided at their free ends with the pins  $d$ , engaging the slots in the yoke-arms. A second bit-bar E connects the centers of the second pair of arms, and a flexible nose-strap F connects the free ends of the inner pair. The two pairs of parallel arms form a pair of oppositely-disposed toggle-levers, connected together by the bit-bars and the nose-strap. The joint between the members of the respective toggle-levers is a rule-joint, and the slots in the yoke-arms are provided at their inner ends with an upward incline, thus forming a lock to retain the toggle in its extended position, while the rule-joint prevents breaking in the opposite direction.

In the operation my improved bit is introduced into the horse's mouth with the toggle bent and the bit-bars in juxtaposition, the nose-strap being over the nose. The yoke is then depressed by means of the handle, extending the toggle and forcing open the horse's mouth.

It will be evident from the description that my invention is simple in construction and easily operated. It is also durable and affords a very powerful leverage. Danger of hurting the horse's mouth is reduced to a minimum, since the force is equally exerted both sides of the mouth and at a point removed from the lips.

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

1. In a drenching-bit the combination of a yoke having longitudinally-slotted arms, a bit-bar connecting the free ends of the arms, a pair of parallel arms pivoted at their centers on the bit-bar and provided with openings in one of their ends, a nose-strap engaging the openings and connecting the arms, a second pair of parallel arms pivoted to the free ends of the first pair, a second bit-bar connecting the centers of the second pair of arms, pins on the free ends of the second pair of arms and engaging the slots in the yoke-arms, and a handle connected with the yoke.

2. A drenching-bit, comprising a yoke having longitudinally-slotted arms, a pair of oppositely-disposed toggle-levers, a bit-bar connecting the centers of the outer members of the toggle-levers with the ends of the yoke-arms, a nose-strap connecting the free ends of the outer members, a second bit-bar connecting the centers of the inner members of the toggle-levers, pins on the free ends of the said inner members for engaging the slots of the yoke-arms, and a handle connected with the yoke.

3. A drenching-bit, comprising a yoke having longitudinally-slotted arms, a pair of oppositely-disposed toggle-levers, pins on the inner ends of the levers engaging the slots in the yoke-arms, a flexible connection between the outer ends of the toggle-levers, bit-bars connecting the centers of the corresponding members of the toggle-levers, a pivotal connection between the outer bit-bar and the ends of the yoke-arms, and a handle on the yoke.

4. A drenching-bit, comprising a yoke provided with a handle and parallel arms, a pair of toggle-levers pivoted to the free ends of the arms, a sliding connection between the inner ends of the toggle-levers and the yoke-arms, a flexible connection between the outer end of the toggle-levers, and bit-bars connecting the centers of the corresponding members of the toggle-levers.

5. A drenching-bit, comprising a pair of toggle-levers, bit-bars connecting the centers of the corresponding members of the pair, a flexible connection between the free ends of the toggle-levers, and means engaging the opposite ends of the levers and the bit-bar adjacent to the flexible connection for actuating the toggle-lever.

6. A drenching-bit, comprising a pair of toggle-levers, bit-bars connecting the centers of the corresponding members of the pair, a flexible connection between the free ends of the toggle-levers and means engaging each of the members of the toggle-levers to actuate the same.

7. A drenching-bit comprising a pair of toggle-levers, a bit-bar connecting the centers of

the corresponding members of the pair, and means engaging one of the bit-bars and the ends of the members of the opposite pair of levers for actuating the same.

JAMES HINEMAN.

Witnesses:

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