

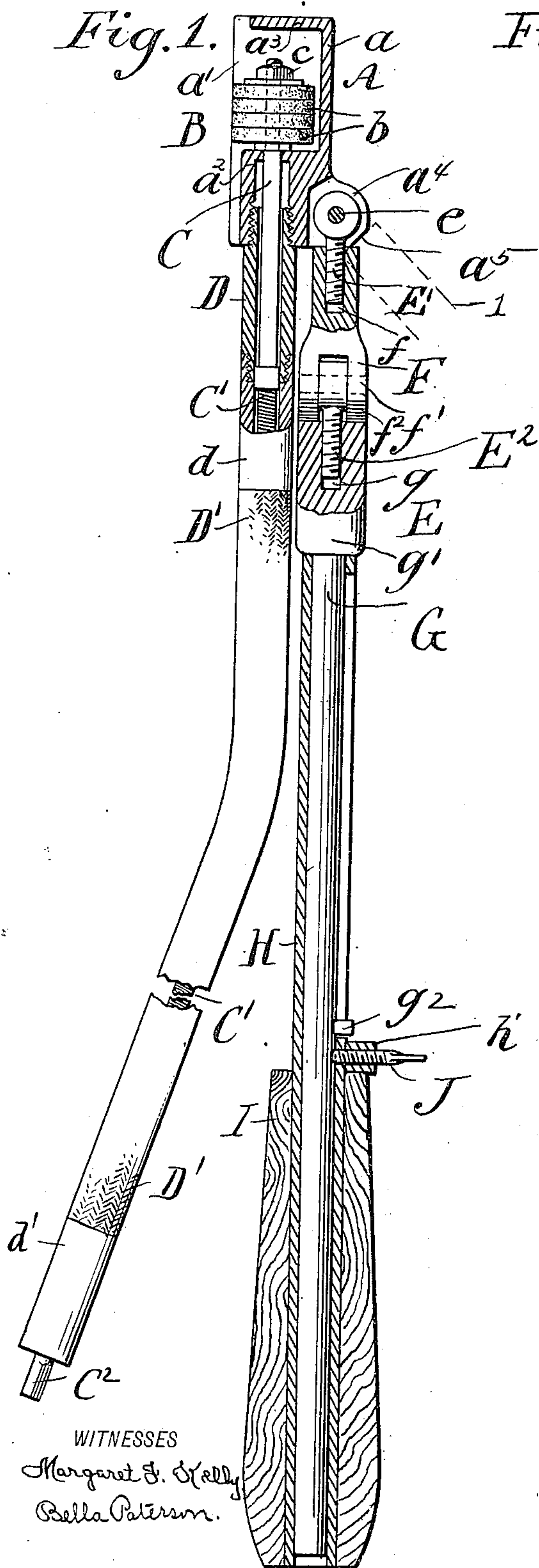
No. 670,086.

Patented Mar. 19, 1901.

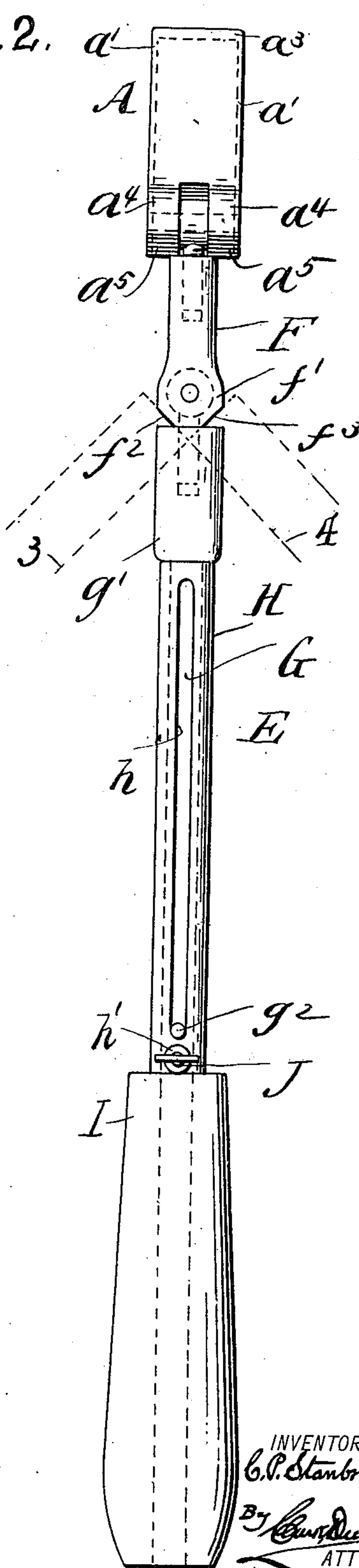
C. P. STANBROUGH.
VETERINARY TOOTH CUTTER.

(Application filed June 26, 1900.)

(No Model.)



WITNESSES
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UNITED STATES PATENT OFFICE.

CLARENCE PETER STANBROUGH, OF NEWBURGH, NEW YORK.

VETERINARY TOOTH-CUTTER.

SPECIFICATION forming part of Letters Patent No. 670,086, dated March 19, 1901.

Application filed June 26, 1900. Serial No. 21,611. (No model.)

To all whom it may concern:

Be it known that I, CLARENCE PETER STANBROUGH, a citizen of the United States, and a resident of Newburgh, county of Orange, and State of New York, (post-office address, Newburgh, New York, Box 87,) have invented certain new and useful Improvements in Equine-Tooth-Cutting Apparatus, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters of reference indicate corresponding parts.

This invention relates to an improved equine-tooth-cutting apparatus; and the object thereof is to provide a device of this character which is readily adapted for operation upon the molar or back as well as the front teeth of a horse.

The device is simple in construction, durable, and inexpensive, and it can be operated by any common form of motor.

The invention will be hereinafter fully described, and specifically set forth in the annexed claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a side elevation of an improved cutter, partly in section; and Fig. 2 is an edge elevation.

In the practice of my invention I employ, primarily, a metallic guard A, embodying the rear wall a , the side walls a' , the journal-box a^2 , and the end wall a^3 . Within this guard revolve the cutters B, which preferably comprises a plurality of disks b , composed of any suitable material having a roughened peripheral surface. The cutters B are mounted upon the end of a shaft C, which is journaled through the box a^2 , and said cutters are retained in place by means of a nut c , which is threaded to the end of the shaft C. This said shaft C extends downwardly through a metallic tube D and connects with a flexible shaft C', which has connection with a squared rod C², adapted to be coupled to a suitable motor for operating the cutters. The flexible shaft C' is covered by a flexible tube D', which is provided at its upper end with a metallic collar d for engagement with the tube D and at its lower end with a metallic collar d' , adapted to act as a journal-box for the driving-rod C².

Extended from the rear wall a of the guard

A are two lugs A⁴, and pivoted between these said lugs by means of the pin e is the handle E, which is adapted to swing freely upon the said pivot. This handle embodies the screw E', the tubular coupling F, which abuts against the lower surface of the lugs a^4 or against the angular shoulders a^5 thereof, as desired, the extension-rod G, the tube H, and the wooden hand-grip I. The screw E' threads into a socket f of the coupling F, and a similar screw E² is pivoted between the jaws f' of the coupling F and threaded into a socket g in the head g' of the rod G. The coupling F is further provided with angular shoulders f^2 and f^3 for contact with the upper end of the rod-head g' to maintain the rod G in position at an angle with the coupling F.

The tube H, which surrounds the rod G, is provided with a longitudinal slot h , which engages a pin g^2 , extended from the said rod. This pin limits the sliding movement of the tube on the rod to keep them from becoming detached from each other.

As a means for locking the tube H in desired position on the rod G, I provide a thumb-screw J, which threads through a tubular extension h' of the tube H and contacts at its inner end with the rod G.

In the operation and use of the device rapid rotary motion is imparted to the cutters through the medium of the flexible shaft C' and any suitable motor. The operator then places the handle E in desired relative arrangement with the guard A, either at an angle to or parallel therewith, by adjusting the screws E' and E² in their respective sockets, which permits of the handle being extended at angle as illustrated by dotted lines 1, Fig. 1 of the drawings, or at either of the angles as shown by dotted lines 3 and 4, Fig. 2 of the drawings, thus providing a device which can be variously employed for bringing the cutters into contact with any tooth of the horse's head—molar, front, top, and bottom.

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

1. As a cutting device for horses' teeth the combination with a rotary cutter and means for operating the same, of a guard having lugs extended therefrom with angular shoulders and a swinging handle pivoted between

said lugs and adapted to alternately engage the surface of the lugs and the angular shoulders thereof, substantially as shown and described.

5 2. As a cutting device for veterinary use the combination with a rotary cutter embodying a plurality of disks, a shaft retaining said disks and a flexible shaft for rotating them, of a guard having lugs thereon with angular
10 shoulders, and a swinging handle comprising a coupling having jaws with angular shoulders, a screw threaded in a socket of said coupling and pivoted between the said lugs, a screw pivoted within the jaws of the said
15 coupling and a rod provided with a threaded socket and engaging said screw, whereby the handle may be maintained at varying angles relative to the said guard, substantially as shown and described.

20 3. As a cutting device for veterinary use,

the combination with a rotary cutter and means for rotating the same, of a guard having lugs with angular shoulders, a swinging handle comprising a telescopic rod adapted for extension, a coupling having angular
25 shoulders, and screws connecting said coupling respectively to the telescopic rod and the said lugs of the guard, whereby the handle may be maintained at varying angles relative to the guard and its cutters, substantially as
30 shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 15th day of June, 1900.

CLARENCE PETER STANBROUGH.

Witnesses:

WM. M. STANBROUGH,
WM. S. WOOD.