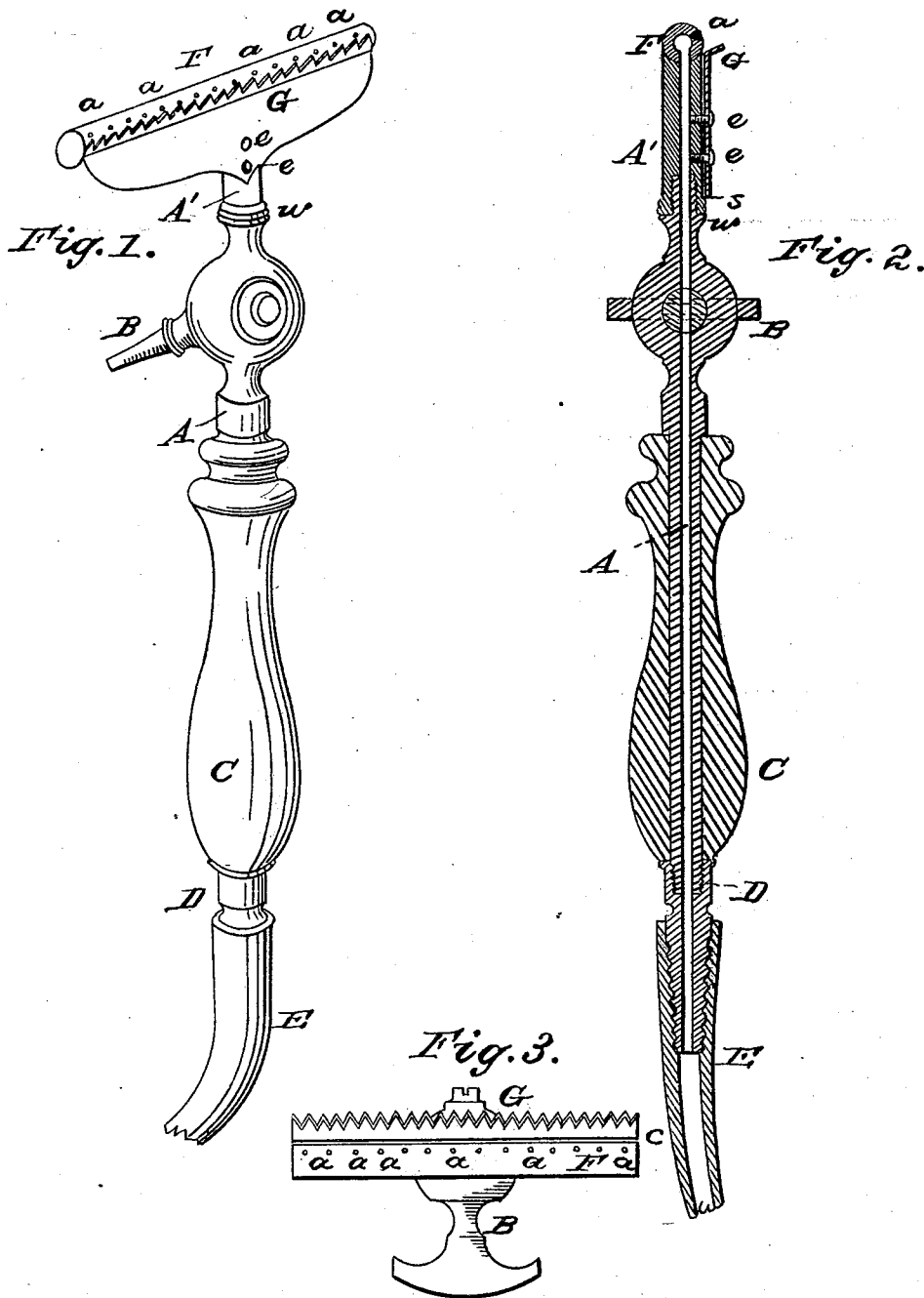


R. BEAUMONT & W. CLARK, Jr.
Grooming Horses.

No. 84,528.

Patented Dec. 1, 1868.



United States Patent Office.

RICHARD BEAUMONT AND WILLIAM CLARKE, JR., OF ALBANY,
NEW YORK.

Letters Patent No. 84,528, dated December 1, 1868.

IMPROVEMENT IN APPARATUS FOR GROOMING HORSES, &c.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, RICHARD BEAUMONT and WILLIAM CLARKE, all of the city and county of Albany, State of New York, have invented a new and improved Apparatus for Grooming Horses and other Animals; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 represents a perspective view of the apparatus.

Figure 2 is a longitudinal section of the same.

Figure 3 represents a vertical view from the top.

To give the horse or other animal a clean, smooth, and glossy appearance, when the hair has grown long and naturally rough, the usual method has been, first, to clip the hair of such animals with a pair of shears, and then singe it with a lamp supplied with a wick and fed by some liquid fuel.

This process is not only tedious to both the operator and the animal, but is attended with more or less danger to both, by the liability of the liquid fuel used escaping from the lamp or apparatus used; neither can the flame used be brought under a quick control.

By our invention, we dispense with the shear-clipping process, and afford a safe and speedy process, in which the animal being groomed is not in the least discommoded or injured, and the operator can perform his work in two hours, which, by the old method, required, even by an expert, at least six hours.

The nature of our invention consists of a handled gas-burner, constructed in a peculiar way, and fed by a rubber, or other flexible hose, from any convenient pipe of gas.

The flow of gas is regulated by a stop-cock, which enables the operator to give a greater or less shoot or force to the flame used, and thus perfectly adapt the condition of the flame to the necessities of the coat of hair on the several parts of the animal, as may be required.

The gas-burner itself is fixed to the end of a conduct-pipe, partially encased in a wooden handle, to prevent the uncomfortable warming of the hand, and may be made of any suitable length, and is pierced with escape-holes, placed about one-fourth of an inch apart, through which the gas escapes to be burned.

A comb is also attached, whereby the hair of the animal is evened down just before the flame strikes the said hair. The said comb is fixed at near the perforated gas-burning tube, and a little below its line of centre, so that a small space between the back of the said comb and the face of the burner is left, to admit a passage of cool air, which will cause the flame to strike in a more slanting or flat direction in the process of operating.

To enable others skilled in the art to make and use

our invention, we will proceed to describe it in reference to the drawings, and the letters of reference marked thereon, the same letters indicating like parts.

A, figs. 1 and 2, represents the main conduct-pipe of the apparatus, and is furnished with a stop-cock, B, figs. 1, 2, and 3.

A part of the said conduct-pipe, below the stop-cock, is encased with a wooden handle, C, which not only prevents the hand of the operator from becoming uncomfortably warm, but is intended to furnish him with a better grasp than he would have without such handle.

At the lower end of the said wooden handle C is a connection-tube, D, furnished with a coarse, blunt screw-thread, and is made tapering, as shown in fig. 2, and is connected with the main conduct-pipe A, by means of the screw-connection S.

To this connection-tube D, a rubber or other flexible hose, E, is attached, by screwing the said tube D into the said hose, to conduct the gas to be used into the apparatus.

Above the stop-cock B, and connected with the main conduct-pipe A, by a screw-connection, S', is a secondary conduct-pipe, A', having its joint packed with any suitable substance, as washer W, to make the said joint tight.

The secondary conduct-pipe A' terminates in a cross-head tube F, which is perforated with escape-holes *a a*, pierced about one-fourth of an inch apart, through which the gas passes to be consumed, when the apparatus is being operated.

The line of the said escape-holes *a a* is placed a little above a horizontal line drawn through the centre of the cross-head F.

A comb, G, is attached to the face of the apparatus, with its teeth a little below a horizontal line drawn through the centre of the cross-head F, and with a space, *c*, between, as shown in figs. 2 and 3.

The said space *c* is to allow a current of cool air to pass between the back of the comb G and the front of the cross-head F, so that a draught will be thrown between the flame and surface of hair being operated upon.

The said comb G is attached to the secondary tube A', by means of the screws *e e*, figs. 1 and 2, and has its teeth bent outward, towards the face of the apparatus.

The cross-head F, and the comb G attached thereto, may be made in any size, as regards spread, as will suit the requirements of the several parts of the animal to be operated upon. Two sizes of such parts are generally used to make a set.

In operating with this invention, the flexible hose E is attached by screwing the connection-tube D into it. If the hair of the animal to be groomed is long, rough, and to a great degree dead, the stop-cock B may be so turned as to admit a full head of gas, which will escape through the holes *a a* with considerable force, and,

when ignited, will afford a strong and lengthy flame; or, if the condition of the hair to be operated upon is better, the force and length of the flame may be diminished by partially cutting off the head of gas by means of the stop-cock.

The operator, in using this apparatus, holds it in one hand, and passes it rapidly and repeatedly over the surface of the hair, in the direction of its nap, and follows the flame with a brush held and operated by the other hand.

Having described our invention, we do not claim using gas in jets for singeing; but

What we claim, and desire to secure by Letters Patent, is—

In combination with a handled encased conduct-pipe, A, the cross-head pipe F, perforated with the escape-holes *a*, placed as described, and combined with the comb G, in such a manner as to leave the air-space *c* between the said cross-head F and the comb G, and all constructed and arranged in the manner specified, for the purposes set forth.

RICH'D BEAUMONT.
WM. CLARKE, JR.

Witnesses:

RICH'D VARICK DE WITT,
DUDLEY W. DE WITT.