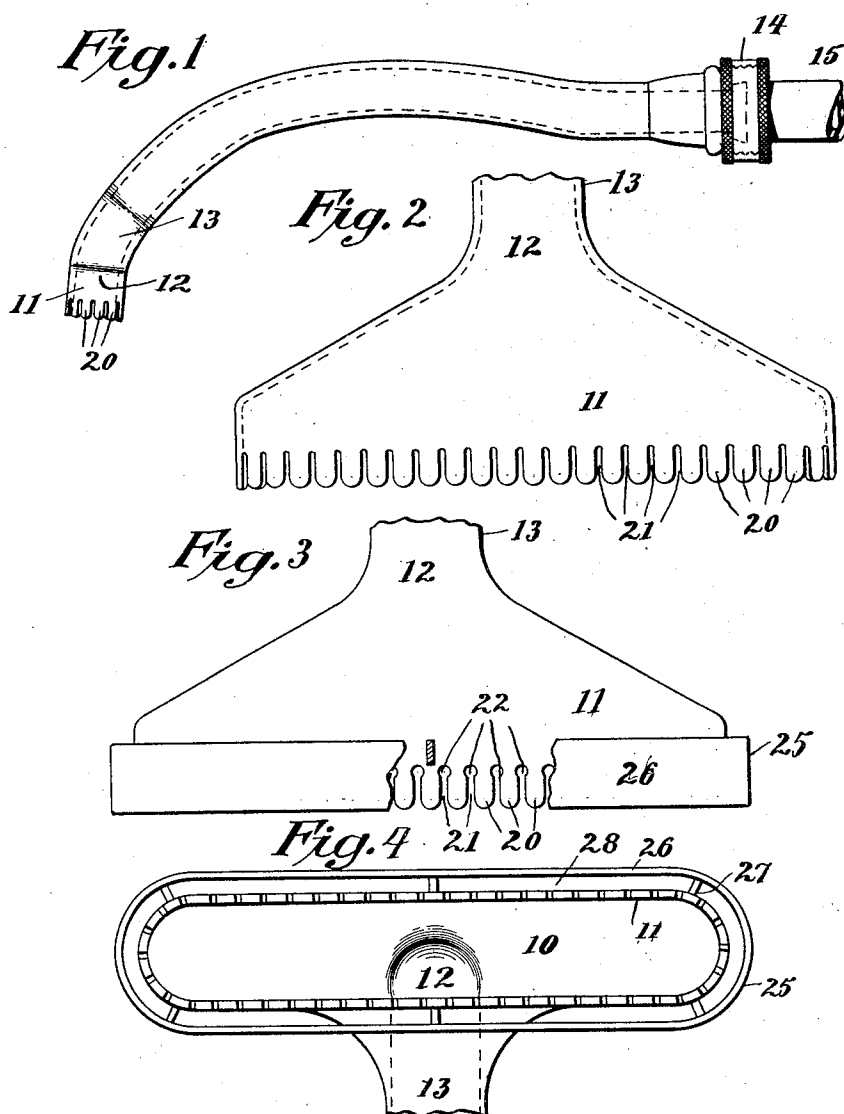


No. 876,766.

PATENTED JAN. 14, 1908.

W. F. BLAISDELL.
HORSE CLEANING IMPLEMENT.
APPLICATION FILED MAY 14, 1907.



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UNITED STATES PATENT OFFICE.

WALTER F. BLAISDELL, OF BROOKLYN, NEW YORK.

HORSE-CLEANING IMPLEMENT.

No. 876,766.

Specification of Letters Patent.

Patented Jan. 14, 1908.

Application filed May 14, 1907. Serial No. 373,659.

To all whom it may concern:

Be it known that I, WALTER F. BLAISDELL, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Horse-Cleaning Implements, of which the following is a specification.

My invention relates to a horse cleaning implement and its novelty consists in the construction and adaptation of the parts, as will be more fully hereinafter pointed out.

Horses are now commonly cleaned or curried, first, by the use of a curry comb provided with somewhat sharp teeth, which stir up the hairy surface of the coat and agitate the hair and dust thereon, and second, by the use of a brush which partially removes the dust and loose hairs, and polishes the hairy surface of the skin.

The purpose of my invention is to provide means whereby the surface coating of hair on the horse will first be disturbed, and second, a current of air will be caused to impinge upon the skin beneath such surface, and third, the dust and small particles of hairs will be removed by means of suction, so inclosing the surface of the animal acted upon as to prevent the escape of the hair and dust into the air.

In the drawings, Figure 1 is a side elevation of an implement embodying my invention; Fig. 2 is a front elevation thereof; Fig. 3 is a front elevation of a modified form of the same, a portion being broken away to show concealed parts; Fig. 4 is a bottom plan view thereof.

In the drawings, 10 is a vacuum chamber formed of the space inclosed by the oblong wall 11, which is narrowed at 12 to form a throat and which terminates at its upper end in a pipe 13 provided with a coupling indicated at 14 whereby the implement may be attached to a hose 15 leading to a vacuum producing means, as a fan or pump (not shown).

The entire lower side of the chamber is open, and the lower edge of the wall, entirely around the same, is formed or suitably provided with teeth 20. The purpose of these teeth is to lift the hair so that the same as well as the skin of the animal and the spaces between the hair may be effectively exposed to the suction. It is advantageous to so construct and arrange the teeth that the cleaning of the animal shall not depend upon a

sharp scraping such as is liable to injure a tender skin, nor upon the use of brushes, and the teeth 20 are therefore made with blunt ends and with spaces 21 between them. These teeth and spaces are of such length that the hair is effectively raked or lifted and exposed to suction and at the same time air is admitted between the teeth and into the chamber to prevent or reduce the tendency of the formation of blisters.

The implement so far as described and as is shown in Figs. 1 and 2 is in use employed as follows: The suction producing apparatus is first started. The implement is then placed against the side of the horse and drawn along its body with the grain of the hair. The teeth 20 rake the hair and lift it above its usual level and thus give access to the skin underneath. The current of air produced toward the throat 12 by the suction carries away the dust and dirt beneath the upper layer of hair and between its interstices and within the hair and also carries away the small particles of hair which are to be found resting loosely on the skin.

It is obvious that some means must be provided to allow a current of air to flow inwardly into the chamber 10, or the suction will raise a blister on the skin of the horse. Usually the space 21 between the teeth 20 will be sufficient, but if it is found not to be so, I provide additional air inlets 22 adjacent to the teeth, as shown in Fig. 3 for that purpose.

Should circumstances require it, I also provide the implement with an external guard 25. This comprises a band 26 of metal, or other suitable material, arranged around the outer edge and secured to and separated from the wall 11 by strips 27 so as to leave an air space 28 between the guard and the wall. This guard serves to produce a preliminary agitation or disturbance of the hair before it is reached by the teeth 20 and to promote the formation of the air current and to guide it into the chamber 10.

What I claim as new is:—

1. A horse cleaning implement comprising a vacuum chamber open at its bottom and the lower edge of which is provided with means for raking the hair, consisting of a comb with blunt teeth having spaces for the admission of air between the same.

2. A horse cleaning implement comprising a vacuum chamber open at its bottom and the lower edge of which is provided with

means for raking the hair, consisting of a comb with blunt teeth and provided with air inlets adjacent to the teeth.

3. A horse cleaning implement comprising
5 a vacuum chamber open at its bottom and the lower edge of which is provided with means for raking the hair, consisting of a comb with blunt teeth, and an external guard with an air space between it and the
10 teeth.

4. A horse cleaning implement comprising a vacuum chamber which is open at the bottom and has the lower edges of its inclosing

walls provided with teeth adapted to raise the hair, said chamber also having air inlets 15 adjacent to the base of the teeth, and an external guard inclosing the teeth and so related thereto as to leave an air space between it and the teeth.

In testimony whereof I affix my signature 20 in presence of two witnesses.

WALTER F. BLAISDELL.

Witnesses:

WILLIAM R. BAIRD,
SARA G. O'ROURKE.