(No Model.)

O. P. FRETWELL.

ANIMAL CLEANING DEVICE.

No. 594,732. Patented Nov. 30, 1897.

Fig. 1.

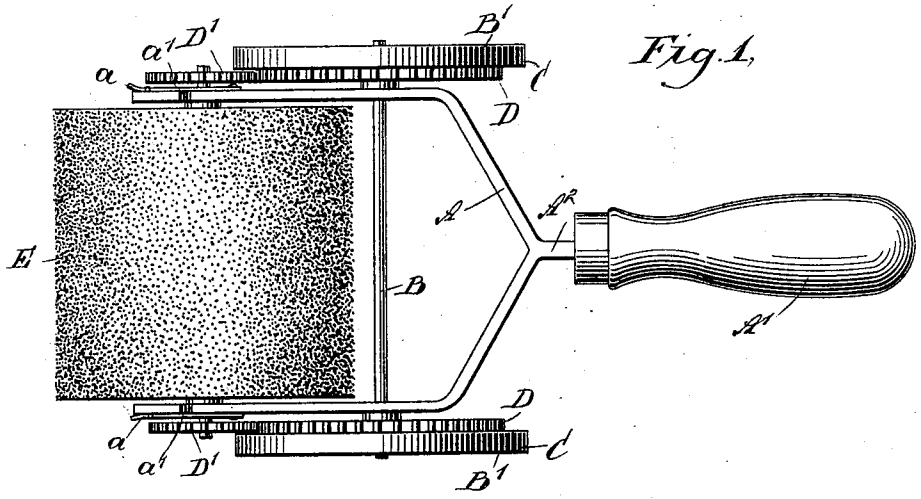


Fig. 2.

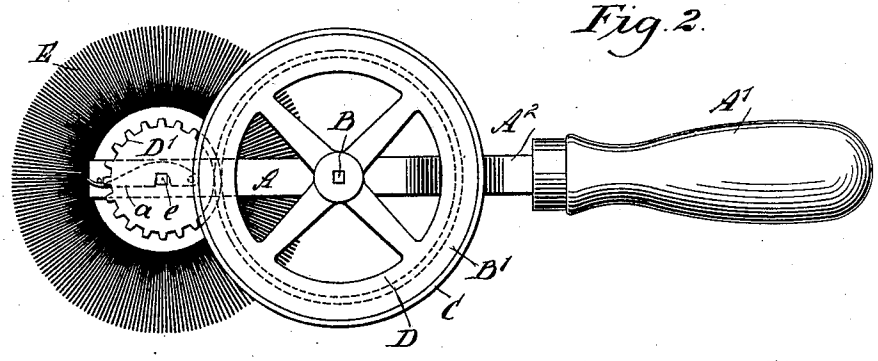


Fig. 3,

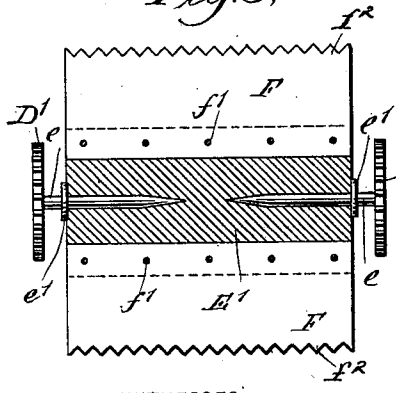


Fig. 4,

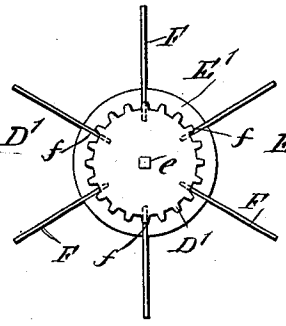
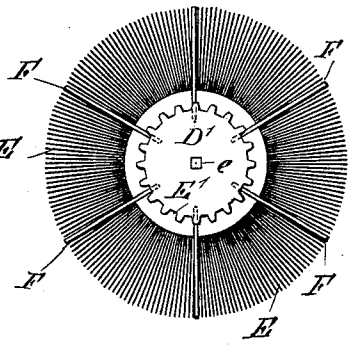


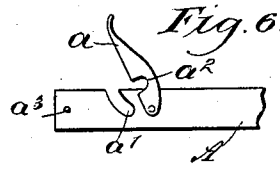
Fig. 5,



WITNESSES:

Edward Thorpe.
H. L. Reynolds.

Fig. 6.



INVENTOR
O. P. Fretwell.
BY
ATTORNEYS.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ORSON P. FRETWELL, OF CEDAR CITY, UTAH.

ANIMAL-CLEANING DEVICE.

SPECIFICATION forming part of Letters Patent No. 594,732, dated November 30, 1897.

Application filed June 23, 1897. Serial No. 641,856. (No model.)

To all whom it may concern:

Be it known that I, ORSON P. FRETWELL, of Cedar City, in the county of Iron and State of Utah, have invented a new and Improved Animal-Cleaning Device, of which the following is a full, clear, and exact description.

My invention relates to certain improvements in that class of animal-cleaning devices which comprise a rotary brush or similar device mounted in a framework and rotated by means of connections with a wheel or wheels which are turned by contact with the body of the animal; and it comprises certain improvements and details which will be particularly pointed out in the following specification and claim.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a top plan view of my device. Fig. 2 is a side elevation thereof. Fig. 3 is a longitudinal sectional view taken through one form of rotary cleaner to be used with my device. Fig. 4 is an end view of a form of cleaner consisting of radially-disposed metallic plates having their outer edges toothed. Fig. 5 is an end view of a cleaner similar to that shown in Fig. 4, excepting that the spaces between the plates are filled with bristles; and Fig. 6 is a detail showing the manner of securing the journals of rotary cleaners within the frame of the device.

My device is mounted in a frame A, consisting of two parallel bars which are at their rear ends bent inward and united, forming a yoke, and of a rearwardly-extending central portion A^2, entering a handle A', by which the device is held. Within the outer ends of the frame is journaled a rotary brush or other cleaning device. These cleaning devices and the frame are so constructed that one may be taken from the frame and another inserted very quickly when desired. The manner of constructing the frame to secure this result is shown in Fig. 6. Close to the outer end of the frame A is formed a slot a', and near this is pivoted a short bar or catch a, having a notch a^2, which will register with the slot a' in the frame when the catch a is thrown down so as to extend in the same general direction as the frame A. When the bar a is thrown down to this position, it engages a projection or pin a^3 upon the outer end of the frame A, being thus held in position. Each side of the frame may be provided with a catch of this nature. By means of this device the rollers may be readily removed and inserted.

Several forms of rollers or brushes may be used with this device. One form, which is shown in position in Figs. 1 and 2, consists of a central core or cylinder formed, preferably, of wood and having journals adapted to enter the notches a' in the frame A. The central cylinder or core contains bristles which project radially, making a circular brush E. All of these brushes or rotary cleaning devices comprise a central core E', which in one form is shaped as shown in section in Fig. 3. This core is provided at each end with a central shaft or spindle e, the outer end of which forms the journal upon which the core rotates. A washer or collar e' is fixed to each shaft or spindle e and in contact with the outer end of the core. Upon the extreme outer end of each spindle and outside of the part acting as a journal is attached a gear-wheel or pinion D'. One of these pinions might be used and be found sufficient for rotating the device. I have, however, shown such a construction for each end of the cleaner, thus giving two pinions by which it is rotated.

For brushes which contain bristles these will be inserted in any usual or suitable manner. For cleaners of the sort shown in Figs. 3, 4, and 5, in which radial plates F are used, these plates are fixed upon the central cylinder or core by being inserted in longitudinal slots f therein. They may be secured in place by means of rivets f' or any other suitable device. These plates should have their outer edges formed with teeth f^2. In Fig. 5 a cleaner is shown which has the radial plates F as well as the bristles E.

Immediately back of the cleaners or rotating brushes is a shaft B, journaled in the frame of the device and provided at its outer end with wheels B', which are attached to and turn with the shaft B. These wheels are provided with a tire C, formed of rubber or similar material which will afford a good frictional contact with the body of the animal

upon which the device is used. The wheels are also provided upon their inner sides with gear-wheels D, which may be formed as a part of the same wheel or separately formed and attached thereto. Each gear-wheel D meshes with a pinion D′, which is connected to the rotary brush or cleaner.

By applying the wheels B′ to the body of an animal and pushing the device along the wheels D′ will be rotated and the brushes revolved, so that if held in contact with the animal the brushes will thoroughly clean the same. As much pressure as is necessary may be applied to the wheels B′ and the brushes be held lightly or firmly against the body of the animal, as may be desired or necessary.

By means of the catch shown in detail in Fig. 6 any one of these cleaners may be readily removed or inserted and the particular form of cleaner best adapted to the circumstances may be used. By reason of this more rapid and effective work may be accomplished than by a device which has only one form of cleaner or brush that cannot be changed.

My device is of very simple construction and not likely to get out of order and will accomplish as much work in cleaning horses and similar animals as may be accomplished in a much longer time by the use of ordinary cleaning devices.

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

An animal-cleaning apparatus having a yoke-shaped frame, each arm of which has a recess therein, a recessed bar pivotally mounted on each arm of the frame and adjacent to the recesses thereof, a shaft mounted in the arms of the frame, a wheel carried at each end of the shaft and outside of the frame, a gear attached to each wheel, a brush having a central core, a spindle projecting from each end of the core, the spindles being respectively mounted in the recesses of the yoke-shaped frame, a collar attached to each spindle, the collars respectively bearing against the arms of the frame, and a gear attached to the outer end of each spindle and located beyond the arms of the frame, the gear being respectively meshed with the gear of the aforesaid wheels and the spindles being held by the aforesaid recessed bars.

ORSON P. FRETWELL.

Witnesses:
GOMER COSSLETT,
JOHN DUTTON.