(No Model.)

H. G. HANSON.

MOP.

No. 416,163. Patented Dec. 3, 1889.

Fig 1

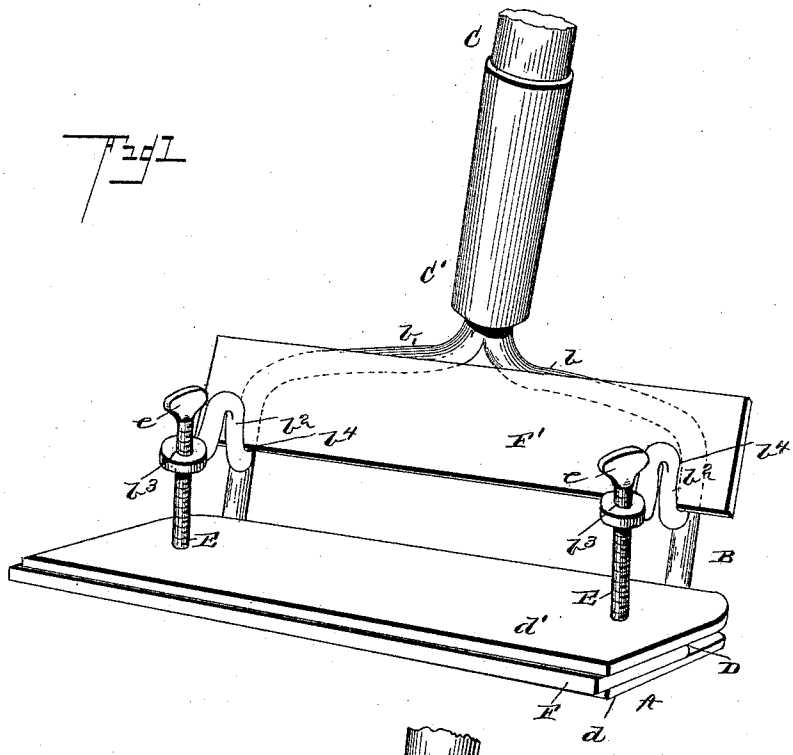
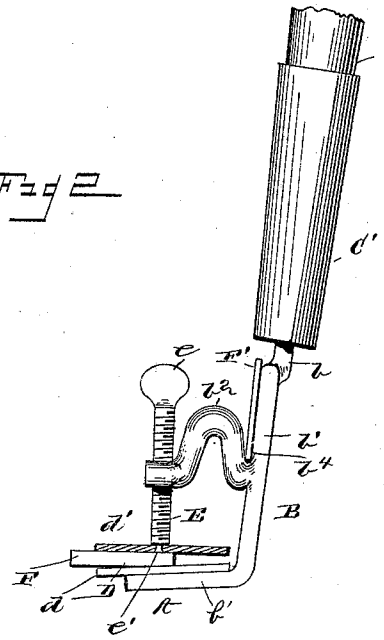


Fig 2



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY G. HANSON, OF TREVOR, WISCONSIN.

MOP.

SPECIFICATION forming part of Letters Patent No. 416,163, dated December 3, 1889.

Application filed June 27, 1889. Serial No. 315,761. (No model.)

To all whom it may concern:

Be it known that I, HENRY G. HANSON, a citizen of the United States, residing at Trevor, in the county of Kenosha and State of Wisconsin, have invented a new and useful Mop, of which the following is a specification.

The invention relates to improvements in mops.

The object of the present invention is to provide a combined mop and floor-scraper of simple and inexpensive construction, adapted to be readily changed from a mop to a scraper, and vice versa.

The invention consists in the construction and novel combination and arrangement of parts, hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

In the drawings, Figure 1 is a perspective view of a mop constructed in accordance with the invention; and Fig. 2 is a side elevation, partly in section, to illustrate the manner of connecting the adjusting-screw to the movable plate or clamp.

Referring to the accompanying drawings, A designates a combined mop and scraper, which comprises a frame B, a handle C, and a clamp D, composed of a stationary plate *d* and a movable plate *d'*.

The frame B is approximately **U**-shaped, is constructed of two angle-rods *b*, having their inner ends inserted in the handle C and their outer ends *b'* bent down at right angles to the rest of the frame and having secured to them, by rivets passing through perforations, the stationary plate *d* of the clamp D. The handle C is strengthened at its lower end, where the ends of the frame are inserted, by a band or ferrule C'. The sides of the frame B are provided with integral arms b^2, which project downward and are arranged parallel with the ends *b'*, and have their extremities enlarged and provided with threaded perforations b^3, that are adapted for the reception of adjusting-screws E.

The adjusting-screws E are provided with flattened heads *e*, to adapt them to be readily turned by the hand, and have their ends *e'* swiveled to the movable plate *d'* of the clamp D, whereby the plates *d* and *d'* may be readily adjusted by the screws E to clamp a sheet of rubber F, and a cheap and convenient mop is provided, in which the sheet of rubber may be quickly adjusted as the latter begins to wear, and in which an old sheet may be removed and a new one inserted.

The arms b^2 are **S**-shaped, and are provided with openings b^4 at the bends adjacent to the frame, which openings or recesses are designed to receive a plate F' of sheet metal, preferably steel, that is designed to be employed in the clamp D, instead of the rubber F, whereby the mop is converted into a scraper that is well adapted for cleaning the floors of stables and the like.

From the foregoing description and the accompanying drawings the construction, operation, and advantages of the invention will readily be understood.

What I claim is—

1. In a combined mop and scraper, the combination of the handle, the approximately **U**-shaped frame provided with arms arranged upon each side and having threaded perforations, the stationary plate secured to the ends of the frame, the movable plate, and the adjusting-screws engaging the threaded perforations of said arms and being swiveled to the movable plate, substantially as described.

2. In a combined mop and scraper, the combination of the handle, the frame provided with arms having threaded perforations, and forming between them and the sides of the frame openings b^4, adapted to hold a sheet of rubber or the like F, the stationary plate, the movable plate, and the adjusting-screws, substantially as described.

3. In a combined mop and scraper, the combination of the handle, the frame composed of the rods *b* and provided with the **S**-shaped projections having threaded perforations and openings b^4 in the bends adjacent to the frame, the stationary plate secured to the ends of the frame, the movable plate, and the adjusting-screws swiveled to the movable plate, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

HENRY G. HANSON.

Witnesses:
L. A. HAVENS,
M. E. HAVENS.