

O. DRAKE.
SHOE FOR VACUUM CLEANERS.
APPLICATION FILED MAY 6, 1911.

1.000.383.

Patented Aug. 15, 1911.

Fig. 1

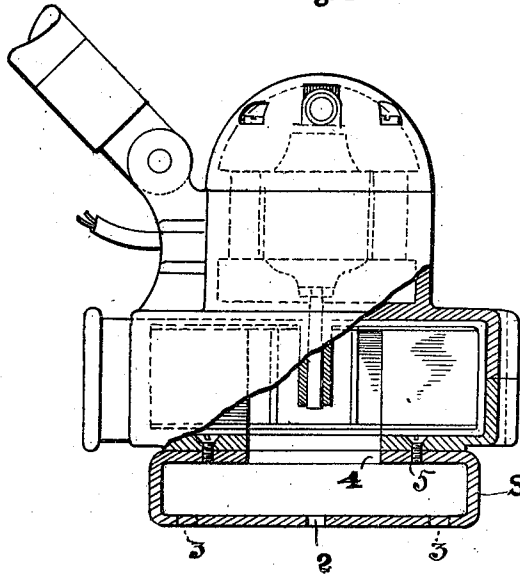


Fig. 2

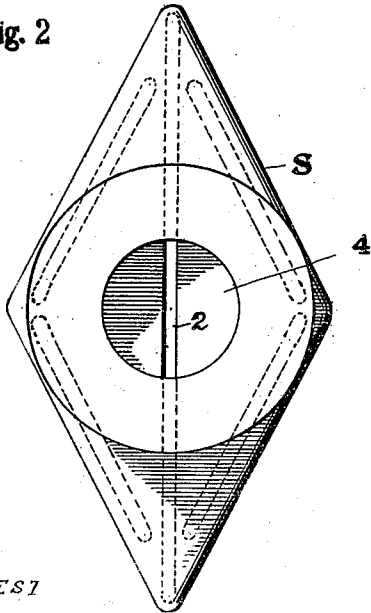
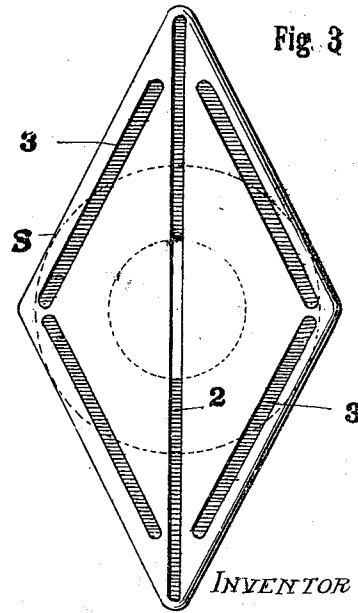


Fig. 3



ATTES

Emil Fisher

H. H. Knapp

INVENTOR

O. DRAKE

By *Fisher & Moore* ATTYS.

UNITED STATES PATENT OFFICE.

ORA DRAKE, OF CLEVELAND, OHIO.

SHOE FOR VACUUM-CLEANERS.

1,000,383.

Specification of Letters Patent. Patented Aug. 15, 1911.

Application filed May 6, 1911. Serial No. 625,525.

To all whom it may concern:

Be it known that I, ORA DRAKE, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Shoes for Vacuum-Cleaners, of which the following is a specification.

My invention relates to shoes for vacuum cleaners, and is an improvement on the shoe shown and claimed in my application, Ser. No. 594,127.

In the accompanying drawings, Figure 1 is an elevation of a vacuum machine partially sectioned and having my improved shoe attached thereto and cross sectioned at about its middle. Fig. 2 is a plan view of the shoe alone, and Fig. 3 is a bottom view thereof.

In the aforesaid application I show a shoe of substantially diamond shape in plan and closed top, sides and bottom except that it has a slot extending from point to point in the bottom and a suction outlet in its top. The present case proceeds on identically the same lines as the former one with the essential difference, however, that the shoe, indicated by S, is provided not only with a slot 2 lengthwise between its extremities but has slots 3 along its sides through the bottom, the said slots being parallel with said sides or side portions. This places said slots 3 in diamond relation conforming to the shape of the shoe in plan and these slots work in conjunction, being separated by the slot 2 and are single and complete in themselves with a portion of stock or webbing at each end.

In practice I have found it desirable to have these supplemental slots near the side edges of the shoe because it both increases the inlet area of the openings and anticipates any unevenness in the surface cleansed. This assures effective suction in the surface traversed by the shoe because if one slot

does not reach a particular spot another probably will, and the entire surface is exposed to practically three different lines of slots successively. It has also been found that this larger suction area saves labor and time in passing over the same surface possibly several times in order to make the work thorough. Suction is through the middle or central opening 4 in the top of the shoe, and the said top is provided with screw holes 5 through which it is adapted to be attached to the machine, as seen in Fig. 1.

Respecting the disposition of the slots 2 and 3 it will be observed that the slots 3 converge from the middle and wider portion of the shoe toward the extremities thereof, thus bringing said side slots to an inclination in respect to the middle slot, relatively as shown.

What I claim is:

1. A vacuum cleaning tool shaped substantially as shown and provided with sides converging from the middle thereof to its ends, and a flat bottom having a straight slot lengthwise centrally through the same and side slots converging from the middle of the shoe toward the respective ends thereof.

2. A vacuum cleaning tool comprising a shoe approximately of V-shape from its middle to each end and having a flat bottom provided with side slots in substantially V-shaped formation conforming to the side walls of the shoe and spaced apart at their adjacent ends and a central slot lengthwise of the shoe between said side slots and spaced therefrom its entire length.

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

ORA DRAKE.

Witnesses:

E. W. FISHER,
R. B. MOSER.