

File Copy

GERMAN REICH



ISSUED
ON AUGUST 21, 1922

PATENT OFFICE OF THE REICH
PATENT SPECIFICATION
- No. 357279 -
CLASS 8e GROUP 3
(Sch 61653 VII/8e)

Otto Schmidt in Berlin-Tegel.

Vacuum cleaner.

357279

Otto Schmidt in Berlin-Tegel

Vacuum cleaner

Patented in the German Reich as of May 11, 1921

The invention relates to a vacuum cleaner with a conical filter tensioned by a spring.

The persistent disadvantage of most vacuum cleaners is that the dust sucked into a bag fills the bag and gradually clogs the pores of the filter, reducing the suction power.

To avoid this problem, the filter cloth is now fitted in the form of a cone with the tip axially against the air flow to allow it to flow along the conical surfaces of the filter and thus deflect the dust away from the filter surfaces so that it does not hit the latter in a vertical direction.

The drawing shows a longitudinal view of the vacuum cleaner.

The jacket *a* forming the dust chamber is pushed by a bayonet catch, not shown here, with its bead ring *r* against a sealing ring *o*, which rests against a bead ring *q* on the fan housing, whereby the chamber is closed.

The air flow enters the chamber through the suction pipe *d* and strikes centrally against the tip of the filter cone *l*, flowing evenly along its conical surfaces.

The filter cone is clamped with a ring *m* in the attachment ring *p* of the fan housing and held in tight tension by means of a head piece *i* and spring *k*. The sliding piece *i* is held by a rod *h* attached to the cross rod *g*.

As the tensioning rod *h*, which carries the filter cone *l*, is aligned with the head piece *i* centrally against the mouth of the suction pipe *i*,

which projects into the collection chamber as a funnel, the air flow is guided along the filter surfaces everywhere.

The resilient arrangement of the head piece *i* also has the advantage that the filter can be cleaned easily without having to remove it from the vacuum cleaner, as any dust adhering to it is thrown off by applying light pressure to the head piece *i* and releasing it quickly.

The cleaned air is conveyed to the outside in the usual way through the funnel *n* by means of the fan *b* through slit-like openings *s* in the housing.

The funnel-shaped end *e* of the suction pipe, which projects far into the casing *a*, ensures that the deposited dust is not recaptured by the air flow.

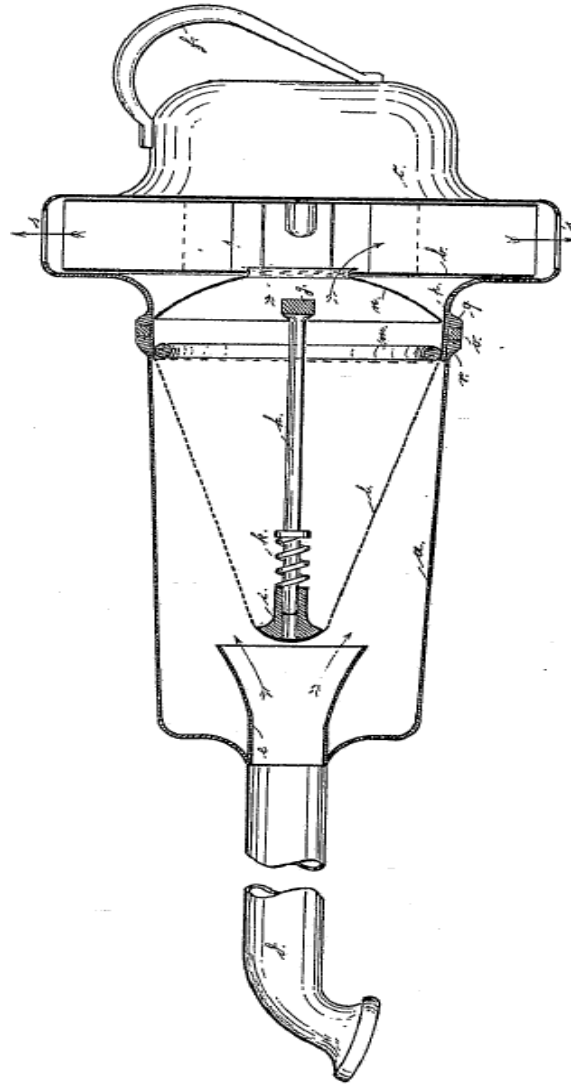
The housing *c* encloses the motor, the shaft of which carries the turbine *b*. The vacuum cleaner can be easily and comfortably guided over upholstered furniture and the like by means of handle *f*.

PATENT CLAIM:

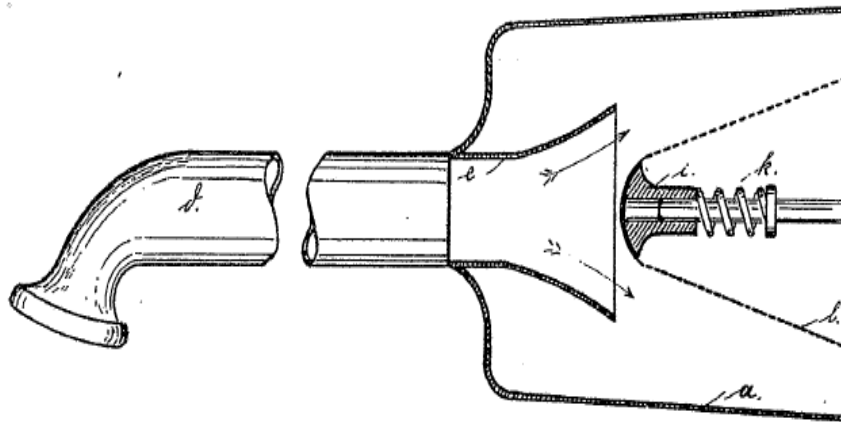
Vacuum cleaner with a conical filter tensioned by a spring, characterized in that a rod (*h*) arranged in the central axis of the filter cone (*l*) receives a head piece (*i*) sliding on the same at its end, through which the filter cloth (*l*) is tensioned by means of the spring (*k*) and is directed with its tip centrally towards the mouth of the suction pipe (*e*) projecting into the collection chamber as a funnel, so that the air flow flows along the conical surfaces of the filter.

One sheet of drawings

BERLIN, PRINTED BY THE REICHSDRUCKEREI.

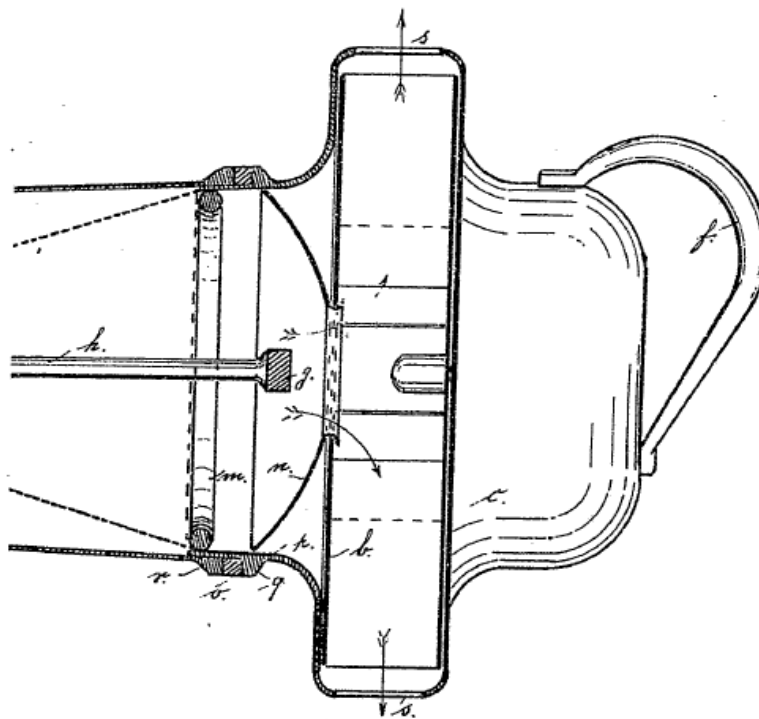


PHOTOGR. PRINT OF THE REICHSDRUCKEREI



PHOTOGR. PRINT OF THE REICHSDRUCKEREI

For patent specification **357279**
Cl. 8e Gr. 3



REICHSDRUCKEREI

TRANSLATOR CERTIFICATION

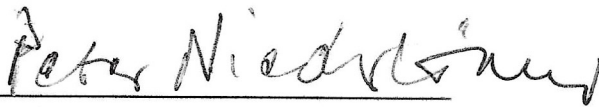
Date: February 20, 2024

To whom it may concern:

I, Peter Niederlöhner, a translator fluent in the German and English languages, on behalf of Morningside Translations, do solemnly and sincerely declare that the following is, to the best of my knowledge and belief, a true and correct translation of the document(s) listed below in a form that best reflects the intention and meaning of the original text.

The document is designated as:

- Patent Specification No. 357279, Class 8e Group 3, Otto Schmidt in Berlin-Tegel, Vacuum cleaner



Signature

Peter Niederlöhner

Print

The Leader in Global IP Solutions

www.morningsideIP.com

info@morningsideIP.com