

No. 686,994.

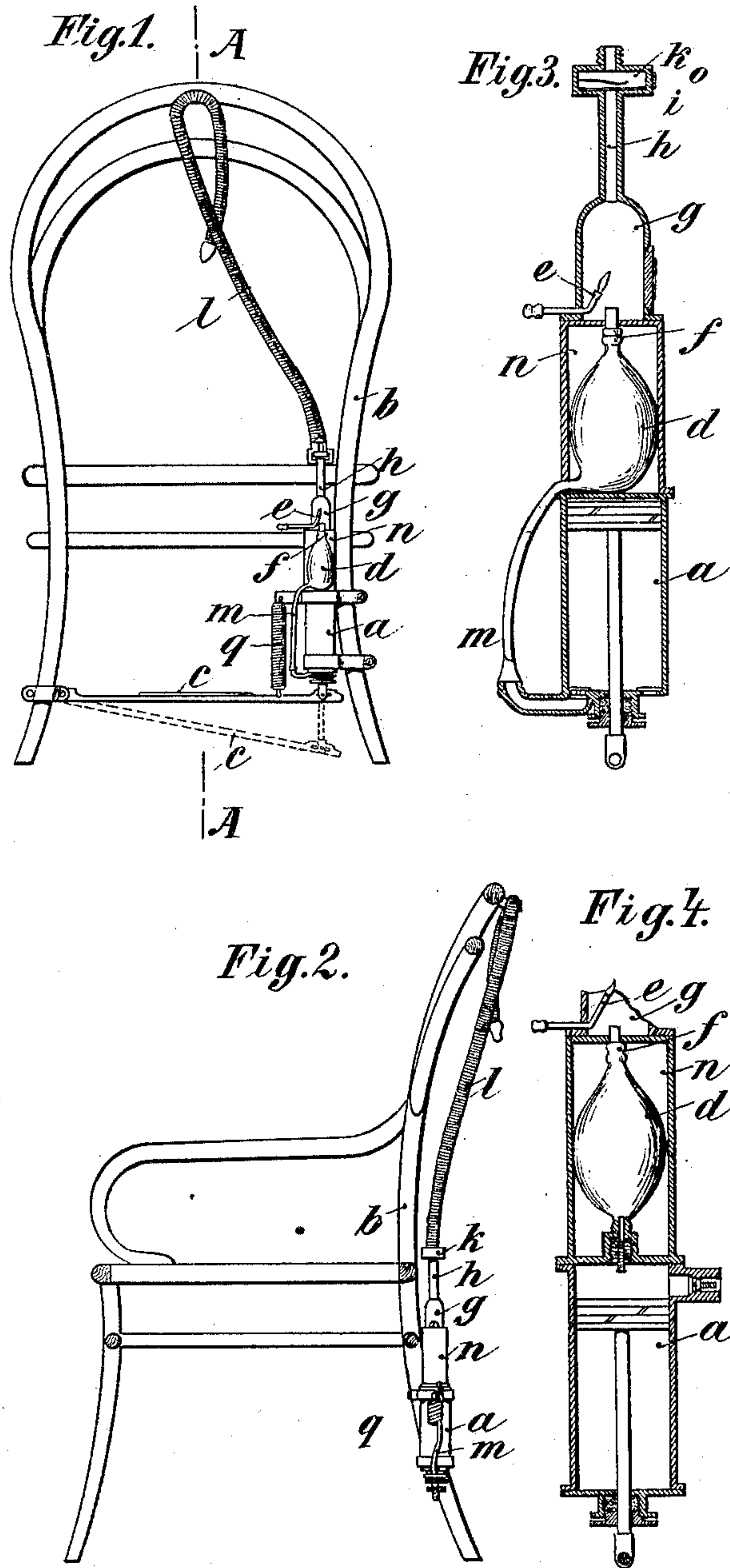
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H. SONNEN.

DISINFECTING AND HAIR DRYING APPARATUS.

(Application filed Apr. 22, 1901.)

(No Model.)



Witnesses:-
M. H. McGowan
M. A. Mitchell.

Inventor:
Heinrich Sonnen
By Knights Bros.
Attys.

UNITED STATES PATENT OFFICE.

HEINRICH SONNEN, OF RECKLINGHAUSEN, GERMANY.

DISINFECTING AND HAIR-DRYING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 686,994, dated November 19, 1901.

Application filed April 22, 1901. Serial No. 56,894. (No model.)

To all whom it may concern:

Be it known that I, HEINRICH SONNEN, merchant, a subject of the King of Prussia and Emperor of Germany, residing at Kirchplatz 2, Recklinghausen, in the Kingdom of Prussia and Empire of Germany, have invented certain new and useful Improvements in Disinfecting and Hair-Drying Apparatus, of which the following is a full, clear, and exact description.

In connection with the disinfecting apparatus which forms the object of this invention and can be employed also as a hot-air hair-drying apparatus, an air-pump, hand-bellows, or the like is used for the purpose of producing a current of air.

A special advantage of this disinfecting apparatus is that it can be also used as a hair-drying apparatus.

The apparatus may be arranged in a simple manner on a hair-dressing chair, so that no special frame is required for setting it up.

The apparatus can be employed not only for disinfecting, but for drying the hair and the like.

A hot-air disinfecting and hair-drying apparatus of this kind is illustrated in the accompanying drawings.

Figure 1 is a front view of the apparatus as arranged on a hair-dressing chair. Fig. 2 shows the apparatus in side view and in section along the line A A through the hair-dressing chair as in Fig. 1. Fig. 3 represents the hair-drying and disinfecting apparatus in section on an enlarged scale. Fig. 4 illustrates an arrangement in which the air is driven direct from the pump into the ball instead of through a tube from below.

The apparatus consists of an air-pump *a*, arranged on one of the legs of the hair-dressing chair *b* and actuated by means of the pedal *c*. If the pedal *c* be brought into the position indicated in dotted lines in Fig. 1 by being simply pressed down with the foot, the compressed air produced in the air-pump passes through a tube *m* into an india-rubber ball *d*, placed in a cylinder *n* above the air-pump. In the india-rubber ball a mouthpiece furnished with an air-outlet opening is arranged, out of which the air passes into a chamber *g*, that is heated by a gas or other flame. The compressed air in the chamber *g*

is there heated by the gas-flame *e*, ascends through the tube *h* into the receptacle *k* for the disinfecting medium *i*, where the heated air absorbs or, in other words, mixes with the disinfecting medium, and is conveyed to the place where it is to be used through a tube *l*, arranged above the chamber.

The action of the apparatus is as follows: The air-pump *a* is actuated by simply pressing down the pedal *c* and the compressed air is forced through the pipe *m* into an india-rubber ball *d*. The latter is suitably placed in a cylinder *n*, arranged above the pump in order to prevent any damage to or bursting of the ball *d*. The mouthpiece *f* of the india-rubber ball projects into a chamber *g*, arranged above the cylinder *n* and heated by the flame *e*. The air is conveyed into the chamber *g*, there heated, then ascends through the pipe *h*, and thus reaches the receptacle *k* for the disinfecting medium, where it dissolves—in other words, mixes with the latter, and then ascends through the tube *l* and reaches the spot where it is to be employed.

Instead of being operated by a pedal the pump may be worked by hand. The pump likewise may be replaced by a hand-bellows or the like. Again, any kind of lamp may be used for heating the chamber *g*. If the apparatus is employed only as a hair-drying apparatus, the disinfecting medium may be suitably dispensed with, so that only the heated air needs to be brought into use. The disinfecting medium can be easily introduced into the receptacle *k* through a valve *o*. A door *p* is also provided in the air-heating chamber, so that the heating-flame may be easily ignited or extinguished. The pedal *c* (or the piston of the pump *a*) is returned to the starting-point in a simple manner by means of a spring *q*. Further, a pump may be employed in which the air to be supplied is not conducted from below through a tube, but conveyed direct from the pump into the india-rubber ball.

What I claim, and desire to secure by Letters Patent, is—

1. The portable disinfecting and hair-drying apparatus comprising an air-pump *a* having means for clamping it to a chair-leg; an elastic reservoir *d*; a heating-chamber *g*; conducting-pipe *h* and flexible discharge-pipe *l*, substantially as shown herein and described.

2. The combination of the air-pump *a*; elastic reservoir *d*; cylinder *n*, inclosing said elastic reservoir; heating-chamber *g*; conducting-pipe *h*; valve *o* and flexible discharge-pipe *l*,
5 substantially as and for the purposes set forth.

3. The combination of the air-pump *a*; elastic reservoir *d*; heating-chamber *g*; conducting-pipe *h*; disinfecting-chamber *k*; disinfect-

ing medium *i* and flexible discharge-pipe *l*,
substantially as and for the purposes set forth. 10

In witness whereof I subscribe my signature
in presence of two witnesses.

HEINRICH SONNEN.

Witnesses:

PETER LIEBER,
WM. ESSENWEIN.