

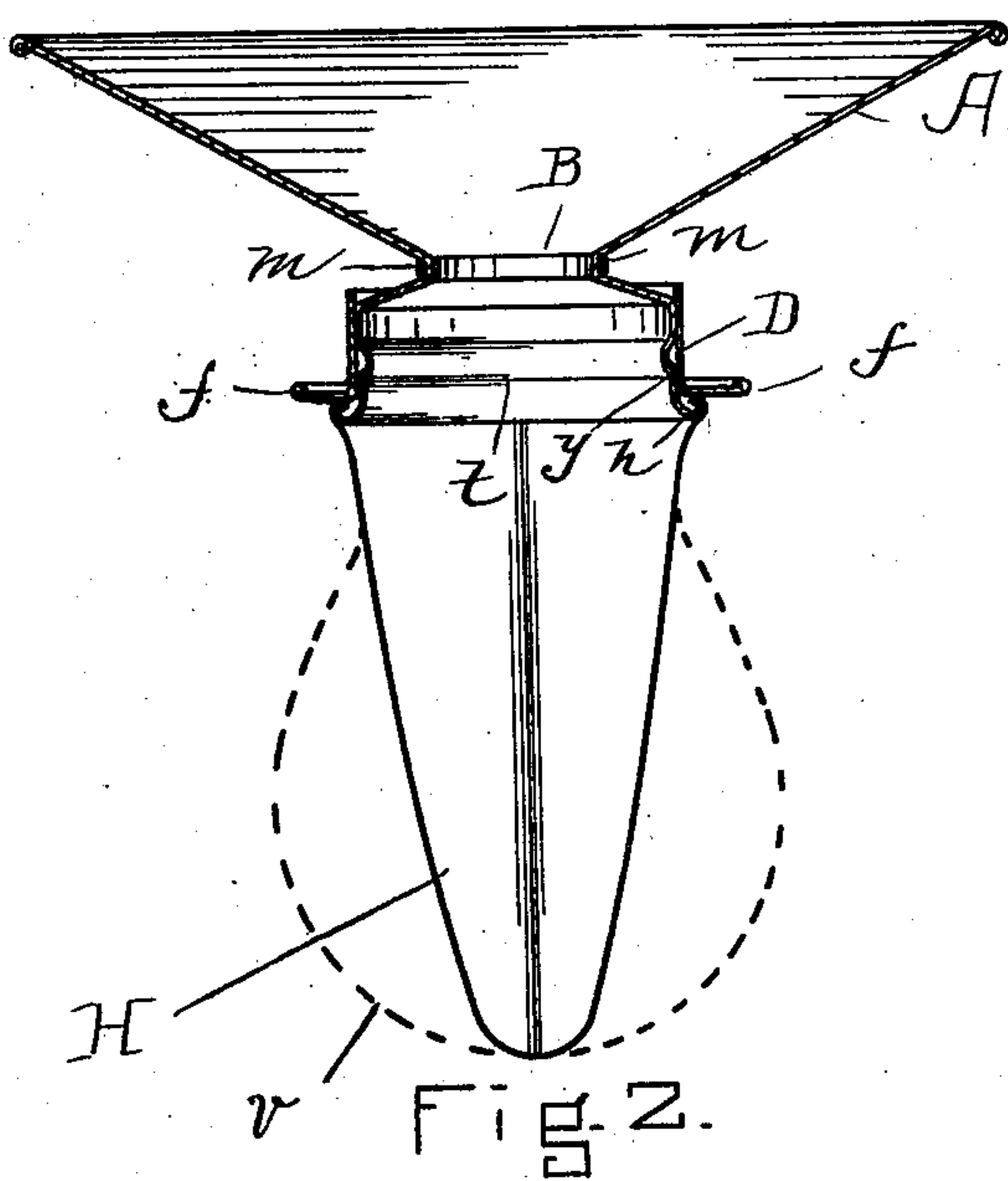
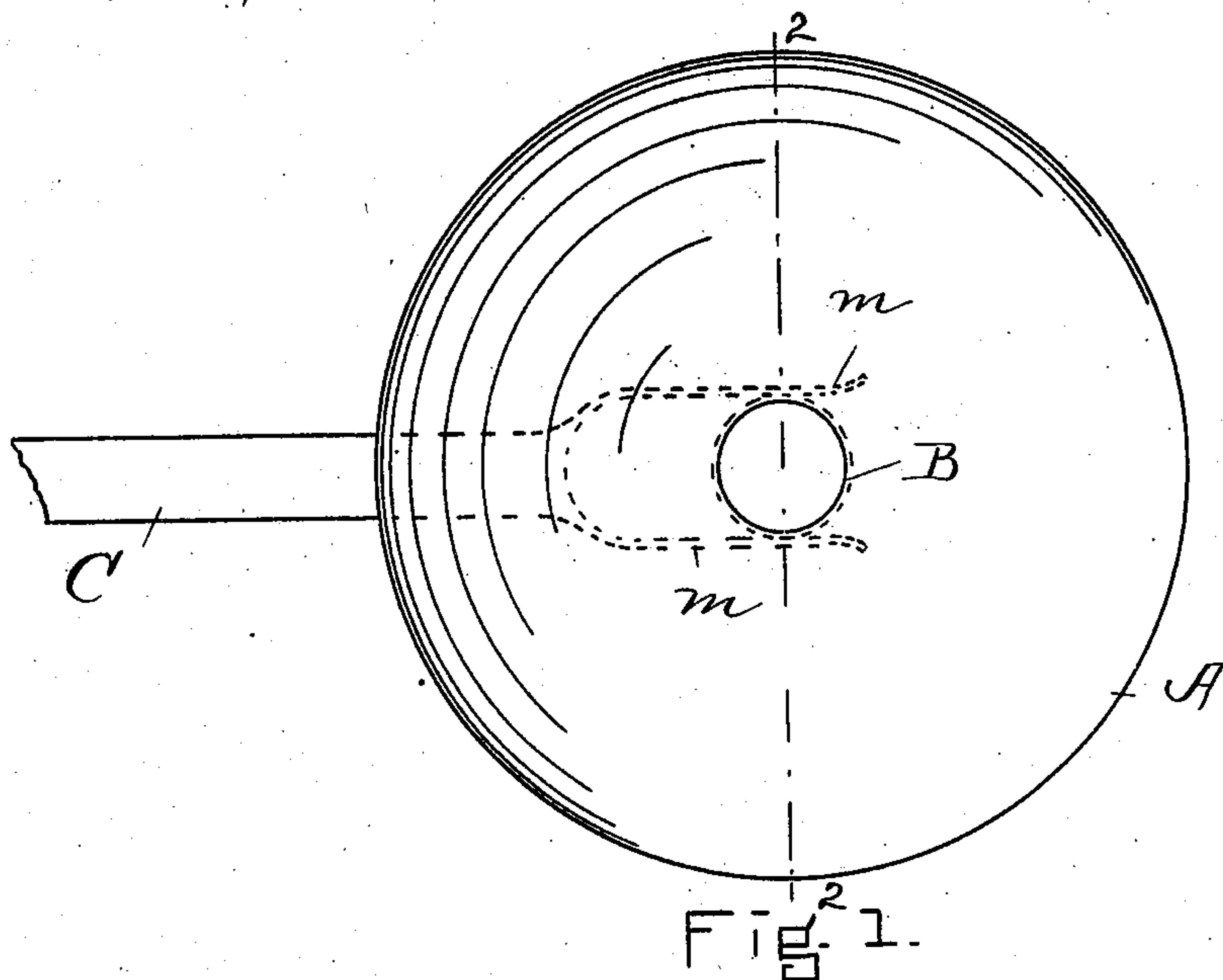
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CUSPIDOR FOR DENTAL CHAIRS.

No. 603,280.

Patented May 3, 1898.



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Matthew M. Blunt.  
Cm. Valbur.

INVENTOR.

Frank G. McCollum  
By O. M. Shaw.  
ATT'Y.

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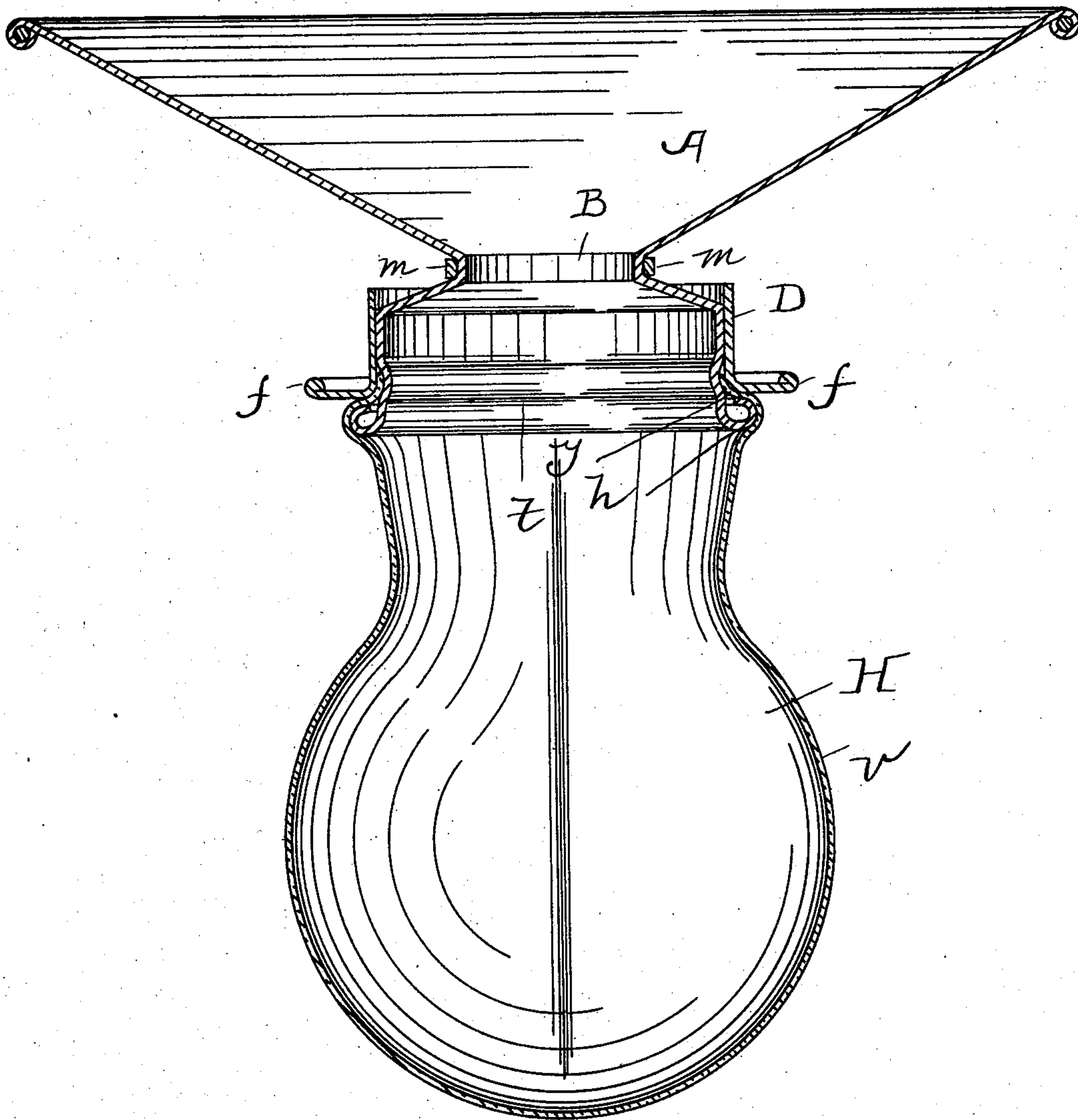


Fig. 3.

WITNESSES.

Matthew M. Blunt.  
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INVENTOR.

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# UNITED STATES PATENT OFFICE.

FRANK G. McCOLLUM, OF CAMBRIDGE, MASSACHUSETTS.

## CUSPIDOR FOR DENTAL CHAIRS.

SPECIFICATION forming part of Letters Patent No. 603,280, dated May 3, 1898.

Application filed May 21, 1897. Serial-No. 637,567. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK G. McCOLLUM, of Cambridge, in the county of Middlesex and Commonwealth of Massachusetts, have made certain new and useful Improvements in Cuspidors for Dental Chairs, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a top plan view of my improved cuspidor represented as attached to the adjustable arm of a dentist's chair, said arm being shown as broken off; Fig. 2, a vertical transverse section of the same, taken on line 2 2 in Fig. 1; and Fig. 3, a like sectional view enlarged to show details.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

Many objectionable features attend the use of cuspidors of ordinary construction in that, particularly in dentistry or surgery, where there is considerable blood following the operations, the large open mouth of such utensils exposes the contents, the sight being frequently nauseating to the patient. Moreover, these cuspidors are materially unhandy to empty, an operation which is constantly necessary to overcome the above objections. In my improvement I arrange the parts so that while the cuspidor will hold as much as the ordinary form its contents will be almost entirely concealed and the bowl or body can be detached for emptying without trouble.

In carrying out my improvement I make use of means which will be readily understood by those conversant with such matters from the following explanation.

In the drawings, A represents the flaring rim of the cuspidor, which is of the same general outline as that commonly employed, it being approximately funnel-shaped; but in my special construction I make the neck B of the funnel very much contracted—in fact, only sufficiently large in diameter to admit a flow of the liquid down through said neck.

Below the mouth of the neck B it flares, and its lower edge is corrugated at *t*, forming an outwardly-projecting horizontal retaining-

flange *h*. Fitted to slide on this large portion of the funnel-neck there is a binding-ring D, provided at its lower edge with a horizontal flange *f*, which will overlap the neck-flange *h*.

The body H of the cuspidor comprises an approximately conical bag of gum rubber, the mouth of which being of such diameter that it must be materially stretched to receive the lower edge of the funnel and pass over the funnel-flange *h*. When in this position, it may be tightly secured by pushing down the clamping-ring D. The fit of these parts is sufficiently tight to support the bag on the metallic funnel when said bag is filled.

In use the cuspidor is mounted in the spring-arms *m* of the usual fork at the end of the supporting-arm C, said fork-arms clasping the narrow mouth B of the funnel. As the bag is filled it will distend, as indicated by dotted lines *v* in Fig. 2.

It will be seen that it is practically impossible for the patient to see the contents of the body of the cuspidor through the narrow funnel-mouth B, thus entirely removing this objection.

When it is desired to empty the bag by means of the movable ring D, the tension on its mouth will be relieved and the bag slipped from the flange H, leaving the metallic funnel in the holder. Said bag can be thoroughly washed by holding it under a faucet, and substitute bags can be kept on hand, avoiding the necessity of putting the cuspidor out of use while being cleaned.

I do not confine myself to employing the particular means shown for securing the body of the cuspidor to its mouth or funnel; nor do I wish to be confined to making the same in any particular form.

Having thus described my invention, what I claim is—

A cuspidor comprising a funnel provided with a contracted neck, the lower end of said neck having an outward projection; a clamping-ring fitted to slide on said neck, and a rubber body adapted to be secured by its mouth between said neck and projection.

FRANK G. McCOLLUM.

Witnesses:

O. M. SHAW,

ANDREW LELAND.