

No. 647,042.

Patented Apr. 10, 1900.

F. G. STEWART.

WOOL DUSTER.

(Application filed Dec. 7, 1899.)

(No Model.)

Fig. 1.

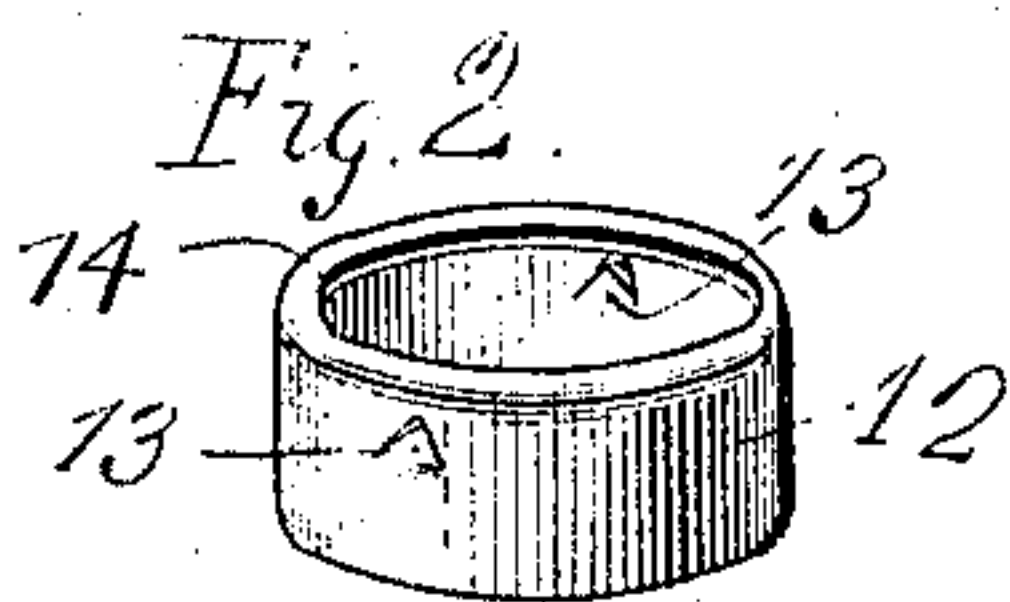
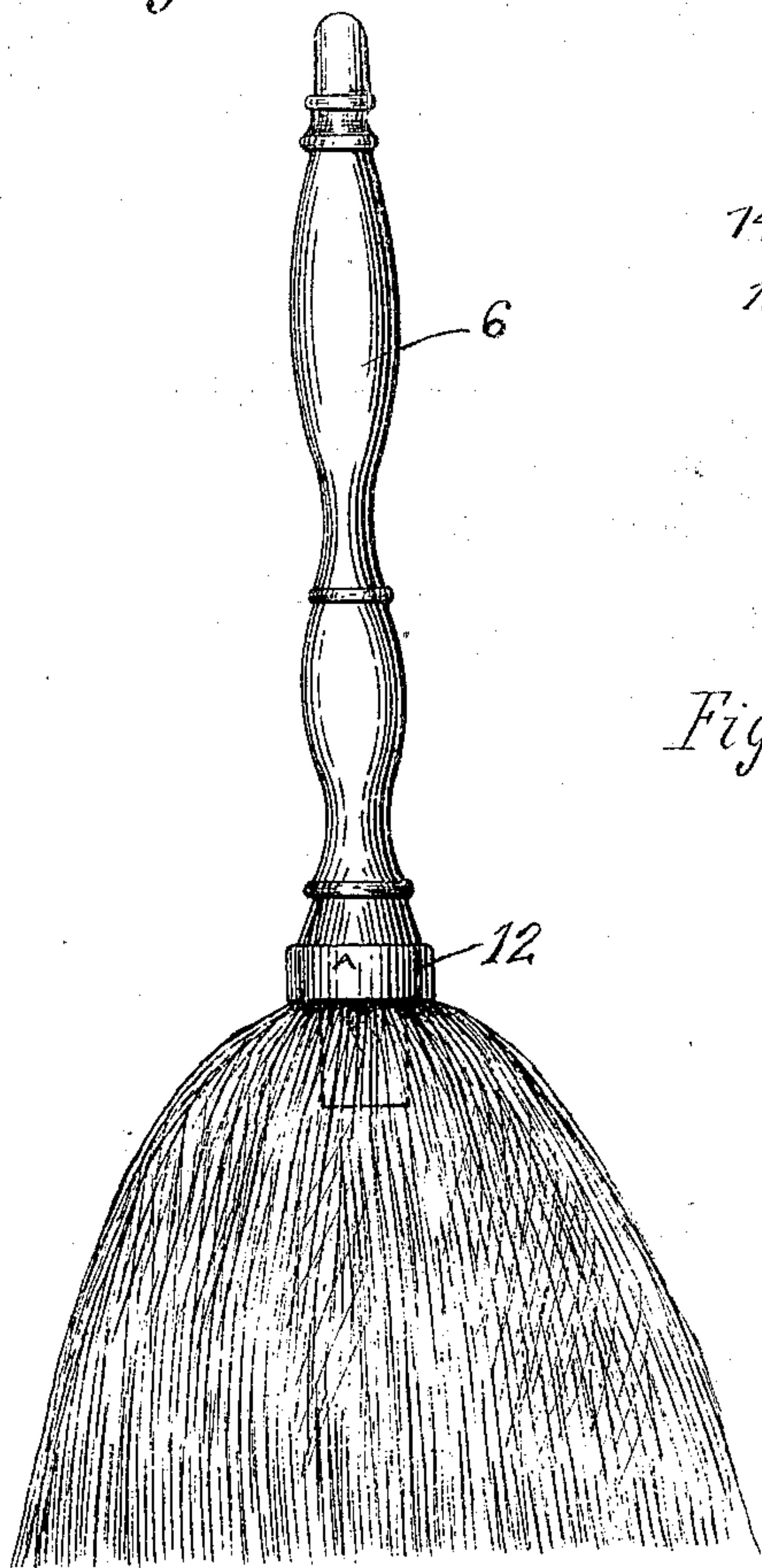


Fig. 3.

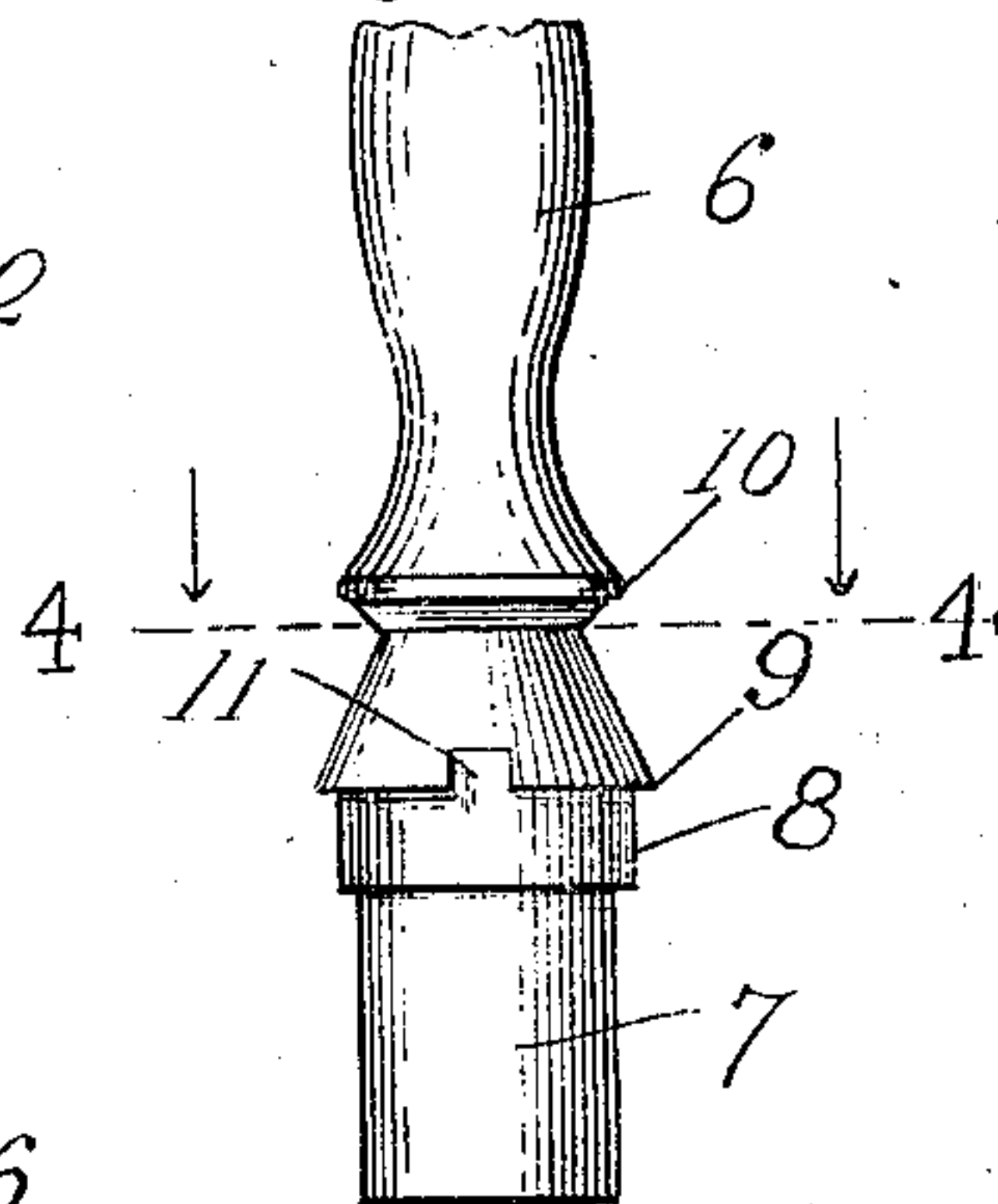


Fig. 4.

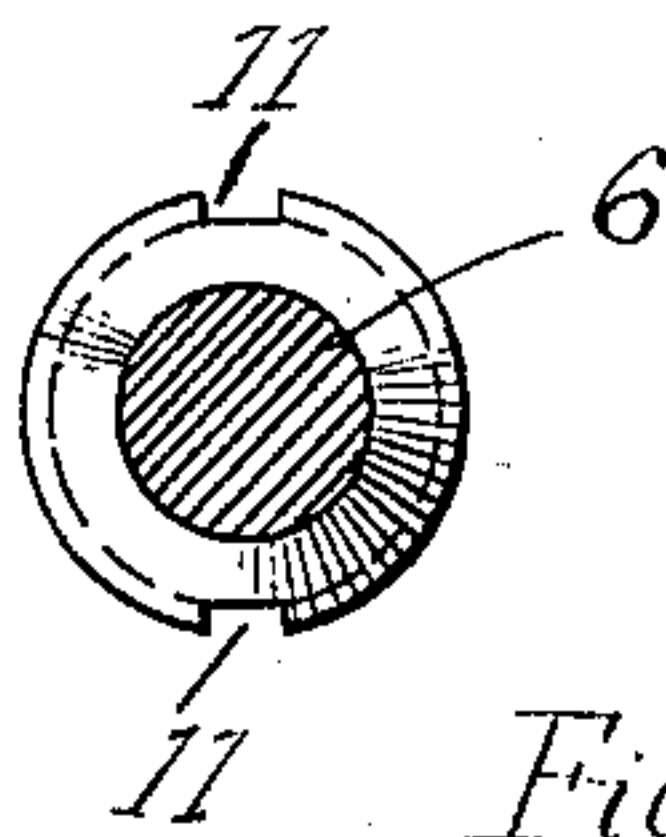
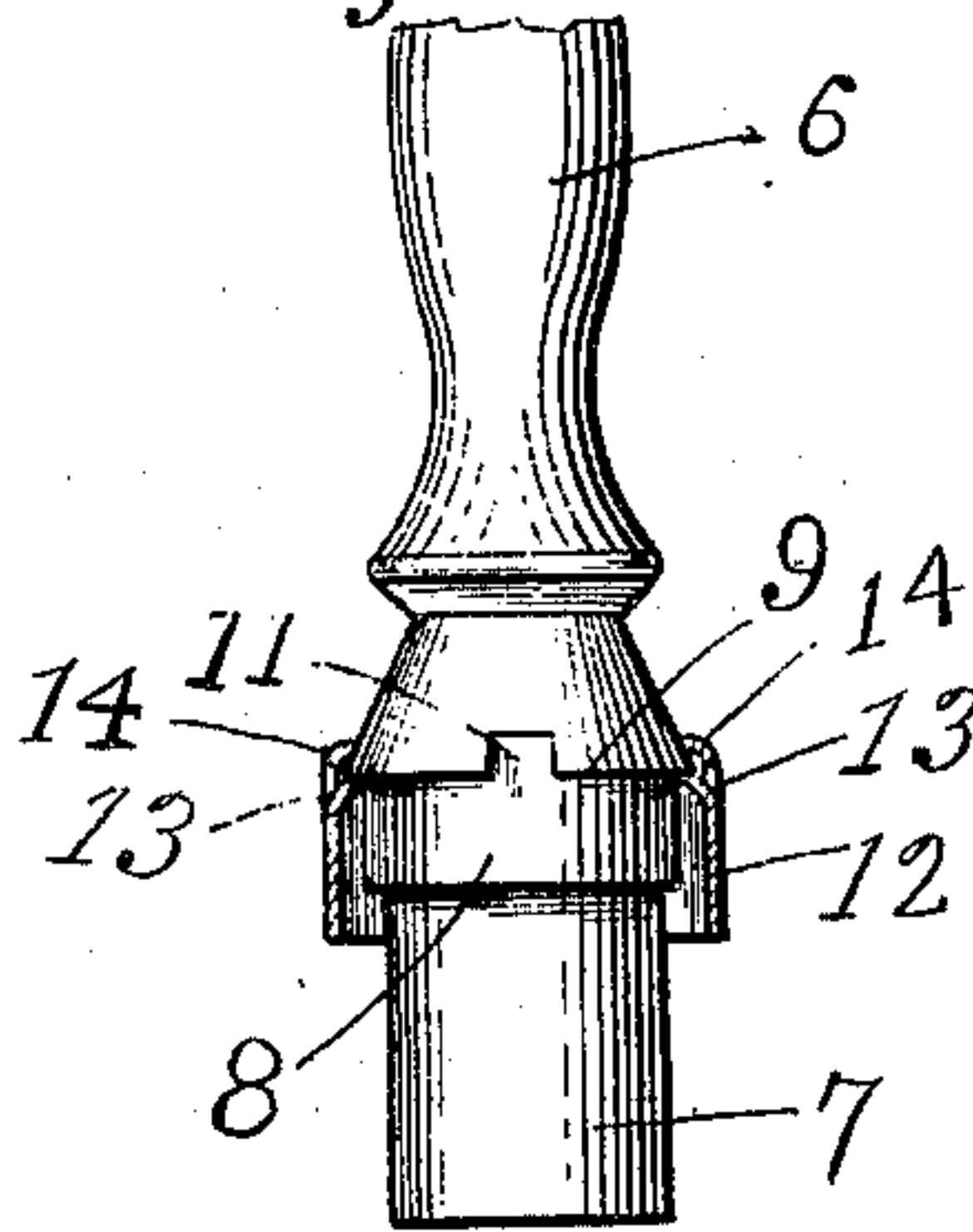


Fig. 5.



Witnesses

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# UNITED STATES PATENT OFFICE.

FRANCIS GURNEY STEWART, OF CHICAGO, ILLINOIS.

## WOOL DUSTER.

SPECIFICATION forming part of Letters Patent No. 647,042, dated April 10, 1900.

Application filed December 7, 1899. Serial No. 739,559. (No model.)

*To all whom it may concern:*

Be it known that I, FRANCIS GURNEY STEWART, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Wool Duster, of which the following is a specification.

This invention relates to dusting-brushes in general, and more particularly to that class comprising a bunch of wool secured to a handle in substitution of feathers, and which dusters are employed in the dusting of highly-polished and fragile materials which are liable to be broken or injured by the usual duster.

The object of the invention is to provide an effective and ornamental means for holding the bunch of wool firmly upon the handle or stick and to so construct this means that it may be readily applied and will be cheap in construction.

In the drawings forming a portion of this specification, and in which similar numerals of reference designate like and corresponding parts in the several views, Figure 1 is an elevation showing the complete brush with the holding-ferrule in place. Fig. 2 is a detail perspective of the ferrule. Fig. 3 is a detail elevation showing the head of a stick or handle. Fig. 4 is a section on line 4 4 of Fig. 3. Fig. 5 is a view similar to Fig. 3 and showing the ferrule in place and illustrating the method of attaching the ferrule.

Referring now to the drawings, 6 represents the duster-handle, which may have any desired shape, excepting at the head. The extremity 7 of the head is cylindrical, as shown, and at a short distance from its extremity the diameter of the handle is increased, as shown at 8, to form an annular flange. In the rear of the flange 8 the diameter of the handle is again increased, as shown, to form a shoulder 9, from which point it is tapered rearwardly to form a frusto-conical portion terminating at a flange or shoulder 10. In the rear of the shoulder 10 the handle may have any desired shape.

At diametrically-opposite points of the shoulder 9 and in the face thereof are formed angular recesses 11.

A ferrule (shown in Fig. 2 of the drawings) is employed for holding the wool in place, and it consists of a cylindrical body portion 12, of compressible material, and having fingers 13 struck up therefrom and projecting inwardly and rearwardly thereof, as shown in Figs. 2 and 5. In practice the wool is disposed upon the portions 7 and 8 of the handle and is secured by a wrapping in the usual manner, after which the ferrule is slipped downwardly over the handle portion 6, the fingers 13 being passed through the recess 11 to lie below the shoulder 9. By then rotating the ferrule the fingers are moved from the recess into engagement with the shoulder, and the ferrule is thus held against rearward movement by the fingers. The inwardly-bent upper edge 14 of the ferrule holds it against downward movement beyond the frusto-conical portion of the handle. It has been found that with a ferrule of this style the wool is held firmly in place upon the handle, while the usual unsightly means for fastening the wool to the handle is covered, so that the duster has a neat and ornamental appearance.

It will of course be understood that in practice any number of fingers 13 may be employed and that in the application of the ferrule and in order to prevent engagement of the fingers with the material of the duster the fingers need not be bent inwardly until they have reached a point adjacent the shoulder 9.

What is claimed is—

1. In a brush, the combination with a handle having an outwardly-directed flange, a flexible material secured to the handle, a ferrule passed over said material and encircling the handle and having inwardly-directed fingers engaging the flange in one direction, and means for preventing displacement of the ferrule in an opposite direction, said flange having slots disposed longitudinally of the handle to permit passage of the fingers there-through.

2. In a duster, the combination with a handle having an outwardly-directed flange, of flexible material secured to the handle, and a ferrule inclosing portions of the material and

having its rear end bent inwardly to engage  
one face of the flange and having inwardly  
and rearwardly directed fingers engaging the  
opposite face of the flange, said flange having  
5 slots for the passage of the fingers through  
the flange to assume their operative positions.

In testimony that I claim the foregoing as

my own I have hereto affixed my signature in  
the presence of two witnesses.

FRANCIS GURNEY STEWART.

Witnesses:

B. L. LEE,

M. ORTELL.