

E. B. DESENBERG & E. S. PILSWORTH.
 INSTRUMENT FOR WRITING, MARKING, OR DECORATING WITH PLASTIC MATERIALS.
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1,099,344.

Patented June 9, 1914.

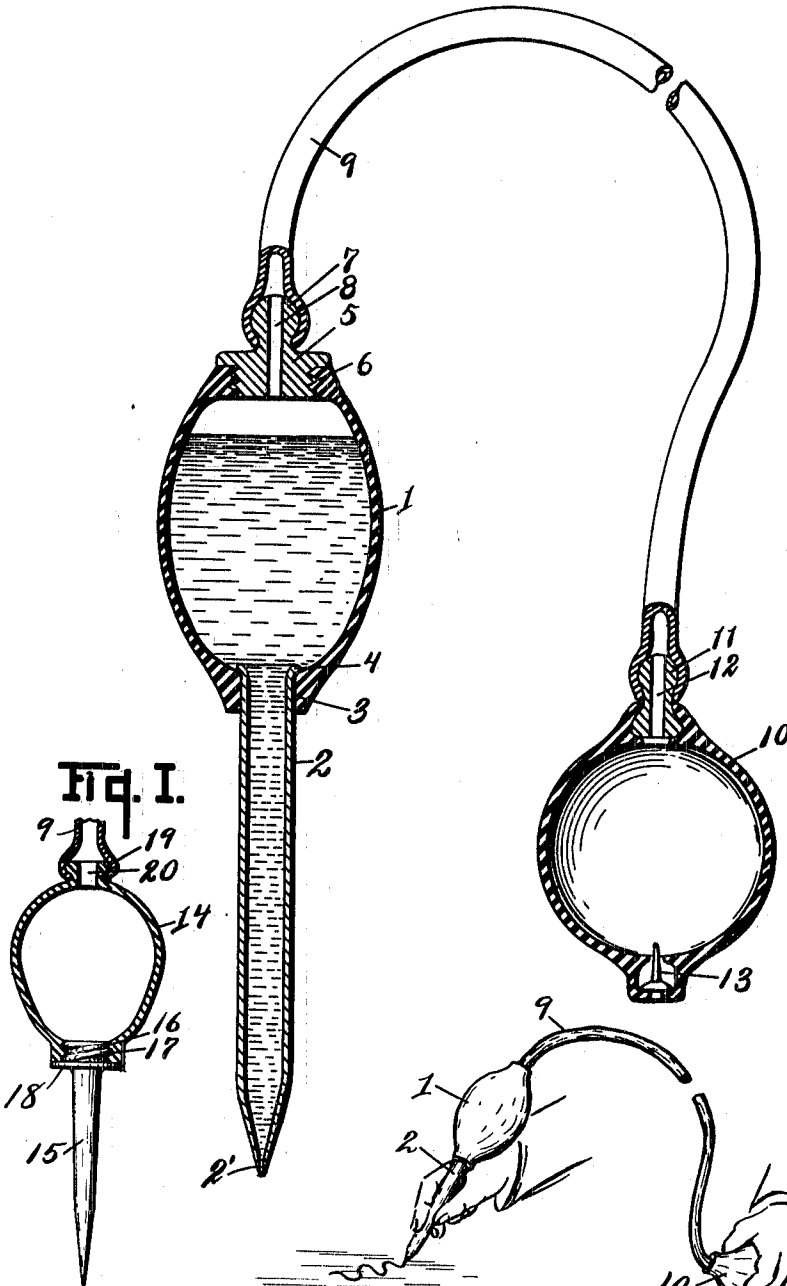


FIG. I.

FIG. II.

Witnesses
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UNITED STATES PATENT OFFICE.

EDWARD B. DESENBURG, OF KALAMAZOO, AND EDWARD S. PILSWORTH, OF BATTLE CREEK, MICHIGAN.

INSTRUMENT FOR WRITING, MARKING, OR DECORATING WITH PLASTIC MATERIALS.

1,099,344.

Specification of Letters Patent.

Patented June 9, 1914.

Application filed September 5, 1911. Serial No. 647,738.

To all whom it may concern:

Be it known that we, EDWARD B. DESENBURG, a citizen of the United States, and a resident of Kalamazoo, Michigan, and EDWARD S. PILSWORTH, a subject of the Kingdom of Great Britain, and a resident of Battle Creek, Michigan, have invented certain new and useful Improvements in Instruments for Writing, Marking, or Decorating with Plastic Materials, of which the following is a specification.

This invention relates to an improved instrument for writing, marking or decorating with plastic materials.

The main object of the invention is to provide an effective device of the character described, in which the surplus of any hardened material can be readily removed so that the instrument can be readily charged again.

Objects pertaining to details and economies of construction and operation will definitely appear from the detailed description to follow.

The objects of the invention are accomplished by the devices and means described in the following specification.

The invention is clearly defined and pointed out in the claim.

An instrument which is a preferred embodiment of the invention is clearly illustrated in the accompanying drawing, forming a part of this specification, in which:

Figure I is a detail view partially in section of an instrument embodying the features of the invention. Fig. II is a reduced detail view showing the method of manipulation and operation. Fig. III is a detail sectional view through the reservoir and devices, showing a modification.

In the drawings similar numerals of reference refer to similar parts throughout the several views.

Referring to the numbered parts of the drawing, the rubber bulb reservoir 1 is provided with a projecting tubular pen 2, terminating in the reduced writing point 2'. The pen is provided with a flange at 4 that fits snugly within the aperture 3 in the end of the reservoir bulb.

In the threaded aperture 6 in the upper end of the reservoir bulb is a screw plug 5 centrally perforated at 8. A rubber tube 9 fits onto a nib 7 on the upper side of the cap. A rubber compression bulb 10 is

provided with a suitable coupling 11 to the tube 9. A valve 13 of any usual construction is provided in the bulb 10. The purpose of the bulb is to force air into the reservoir bulb 1 to deliver the contents thereof to the pen 2 for writing or marking.

In use the reservoir bulb 1 is filled with a preparation of plaster of Paris in liquid form, which is mixed with a suitable retarding agent, as alcohol or glycerin, to delay the hardening of the same. The writer takes the pen 2 in hand and by gentle pressure on the bulb 10 with the other hand forces air against the contents, delivering the plastic material in a stream of any desired velocity. A fine line or a coarse line can be drawn by simply varying the speed of the movement of the pen, or the pressure within the reservoir, or both.

If the material at any time becomes hardened, the plug 5 can be removed and the contents readily broken up and forced out by compressing the sides of the bulb which, being of rubber, are flexible and forcing the pen 2 into the bulb. The parts may then be readily washed and dried. Of course, if the contents is not hardened, washing only is required in cleansing.

In place of the screw plug being in the upper end of the reservoir bulb, it may be at the lower end of the bulb and form a part of the pen, as indicated in Fig. I. The pen 15 (see Fig. III) is provided with a screw head 16 fitting into the threaded aperture 17 in the reservoir 14, a suitable flange 18 being provided at that point. The upper end of the bulb is provided with a nipple 19 which is perforated at 20 for attachment of the rubber tube 9. The operation of the modified structure is precisely the same as the other. It can be cleaned, of course, by removing the screw threaded plug 16 from the lower end. Each structure has some slight advantages peculiar to itself.

The instrument can be considerably modified without departing from the invention. It is desired to claim the same specifically and broadly, as indicated in the appended claim.

Having thus described the invention, what we claim as new and desire to secure by Letters Patent is:

In a writing or marking device, the combination of a flexible rubber bulb, alined openings therein, one of said openings being

larger than the other, a tubular pointed pen provided with a flaring upper end, whereby said pen is supported in said smaller opening in the flexible bulb, a perforated screw plug threaded into the larger opening in said reservoir bulb, and a compression bulb connected thereto by means of a flexible tube, substantially as described for the purpose specified.

In witness whereof, we have hereunto set 10
our hands and seals in the presence of two
witnesses.

EDWARD B. DESEMBERG. [L. S.]
EDWARD S. PILSWORTH. [L. S.]

Witnesses:

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