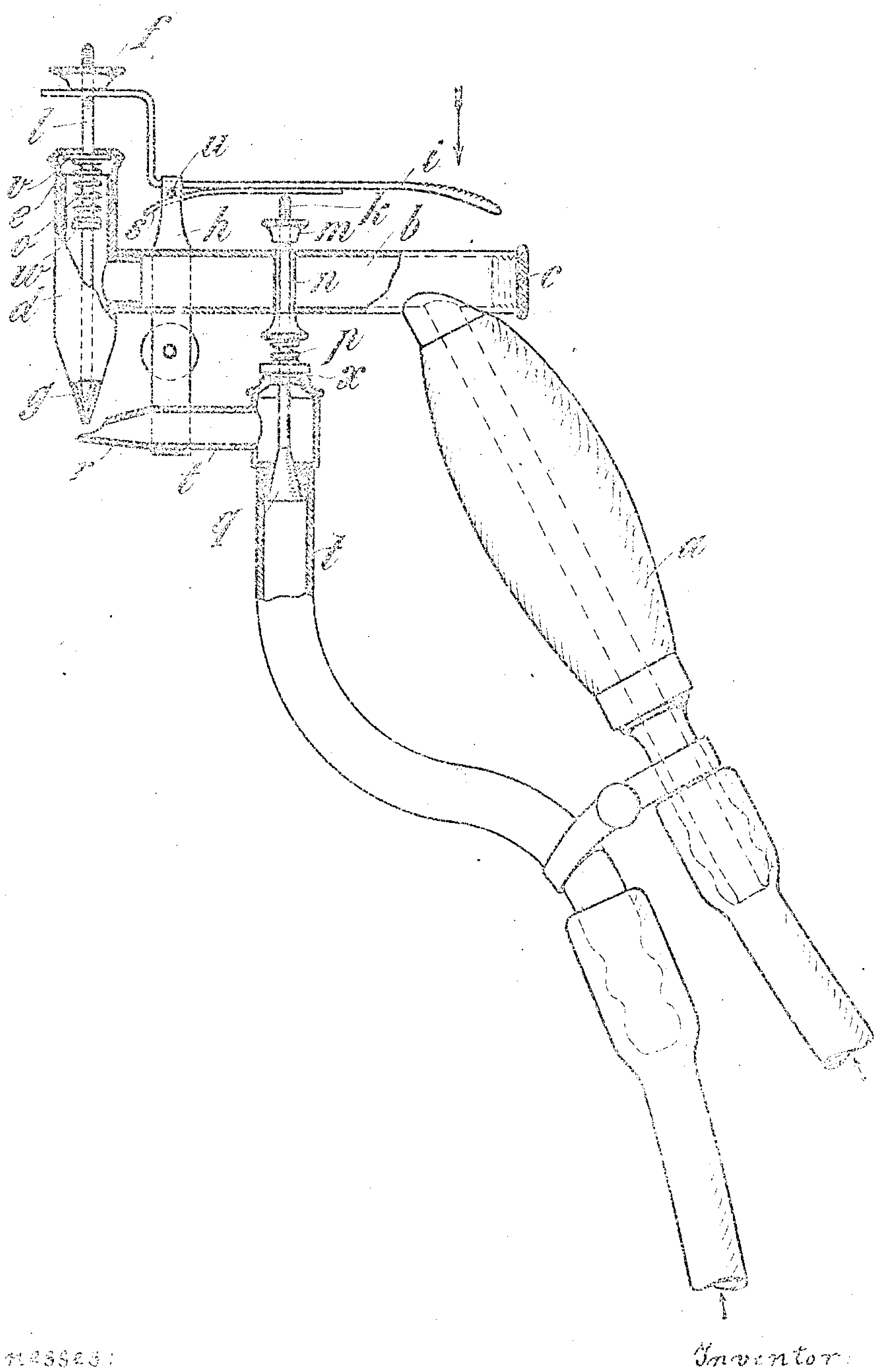
No. 888,449. PATENTED MAY 19, 1908.

H. MIKOREY.

COLOR AND DYE SPRAYER.

APPLICATION FILED FEB. 7, 1907.



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HANS MIKOREY, OF SCHÖNEBERG, NEAR BERLIN, GERMANY, ASSIGNOR TO THE FIRM OF MINIMAX CONSOLIDATED LIMITED, OF LONDON, ENGLAND.

COLOR AND DYE SPRAYER.

No. 888,449. Specification of Letters Patent. Patented May 19, 1908.

Application filed February 7, 1907. Serial No. 356,158.

To all whom it may concern:

Be it known that I, HANS MIKOREY, a civil engineer, and a subject of the German Emperor, and a resident of 13 Wartburgstrasse, in the city of Schöneberg, near Berlin, Kingdom of Prussia and German Empire, have invented a certain new and useful Color and Dye Sprayer for Manipulation by Hand and for Continuous Operation, of which the following is a specification.

This invention has reference to a color or dye sprayer for manipulation by hand and for continuous operation with color and compressed air admission to be regulated independently of each other.

Upon the drawing a construction for carrying the invention into effect is shown by way of example.

Upon the drawing:—*b* is the color or dye admitting tube, which is extended through a handle *h*. To the end of the tube *b* and below the handle a flexible conduit is connected which leads to a raised color or dye container. The air under pressure is admitted through the tube *t* which is preferably effected likewise by means of a flexible conduit. The air admitting tube *t* is connected to a nozzle *r*.

The regulation of the feeding of the color or dye and of the air under pressure is effected in the following manner:—At right angle to the color or dye admitting tube *b* a tube *d* is arranged. The connection between both tubes is preferably made detachable. The tube *d* opens out at its lower end into the nozzle *g* and it is closed at its upper end by a cap *e*. Through the cap *e* a spindle *l* projects, the lower part of which is terminated by a pointed end serving as regulating valve. The upper end of the spindle *l* is threaded and is provided with a nut *f*. Upon the spindle *l* and in the interior of the tube *d* a spring *o* is arranged, which rests at one end upon a collar *w* of the spindle *l* and at the other end on the cap *e*, forcing the spindle *l* downwards, so as to close the discharge opening of the nozzle *g*. Between the uppermost winding of the spring *o* and the cap *e*, a tightening ring *v* is also preferably arranged, in order to prevent the escape of the coloring or dyeing material through the guides provided for the spindle in the cap *e*. By the raising of the spindle *l* the discharge opening of the nozzle *g* is opened more or less, so that the coloring or dyeing substance may escape, in order to be converted into a spray by the current of air which is made to flow through the nozzle *r*.

In the air admission tube *t* a valve *q* is arranged, the spindle of which is carried air tight through the valve casing and through the color or dye admitting tube *b*. In order to prevent the escape of the coloring or dyeing material at the points, where the valve spindle *k* passes through the tube *b*, a guide tube *n* is arranged air tight in the tube *b*. A spring *p*, mounted upon the spindle *k*, keeps the valve *q* closed. The upper part of the valve spindle *k* is threaded and is provided with a nut *m*. By depressing the spindle *k* the valve *q* is opened. The valve spindles *k* and *l* are actuated together by means of a cranked hand lever *i*. The said hand lever or handle *i* is pivotally mounted upon a stud *u* in a support *h*, which is preferably effected in such a manner, that a flat spring *s* is arranged at the lower side of the hand lever *i*, the said spring resting against the bottom side of the stud *u* and locking the lever *i* with the bolt *u* in position. According to the position of the nuts *f* and *m* upon the spindles *l* and *k* the corresponding valves are opened more or less, so that it is possible to regulate the admission of coloring or dyeing material and the admission of air under pressure in any desired proportions in any manner required.

In order to make it possible to clean the color or dye tube *b* in an easy manner, the said tube is preferably provided with a detachable threaded stopper *c*.

The cleaning of the entire device is facilitated by the fact, that all the essential parts are detachably connected to each other.

What I claim and desire to secure by Letters Patent of the United States is:—

1. The combination, in a color or dye sprayer, of a valve operating lever, with two spindles, controlled by said lever and actuating the color—or dye—and the air discharge-valves respectively, each of these spindles being arranged in about the same distance from the fulcrum of the valve operating lever, substantially as set forth.

2. In a color or dye sprayer, the combination of a valve operating lever with two spindles, actuated by said lever and arranged in about the same distance from its fulcrum, and adjustable stops on said spindles, the

stop on the color valve actuating spindle regulating the opening of this valve, and the stop on the air valve actuating spindle controlling the strokes of both, the color and air discharging valves, substantially as described.

In witness whereof I have hereunto signed my name this 24 day of January 1907, in the presence of two subscribing witnesses.

HANS MIKOREY.

Witnesses:
WOLDEMAR HAUPT,
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