

H. MIKOREY.
 COLOR SPRAYER OR DISPERSER.
 APPLICATION FILED APR. 28, 1908.

978,469.

Patented Dec. 13, 1910.

Fig. 1.

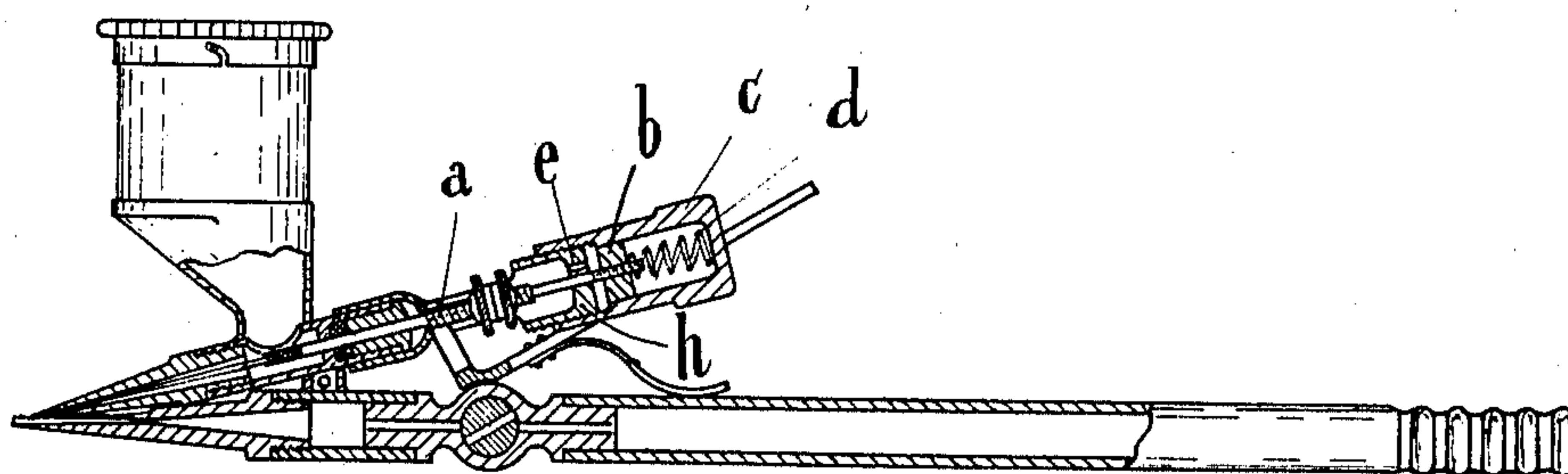
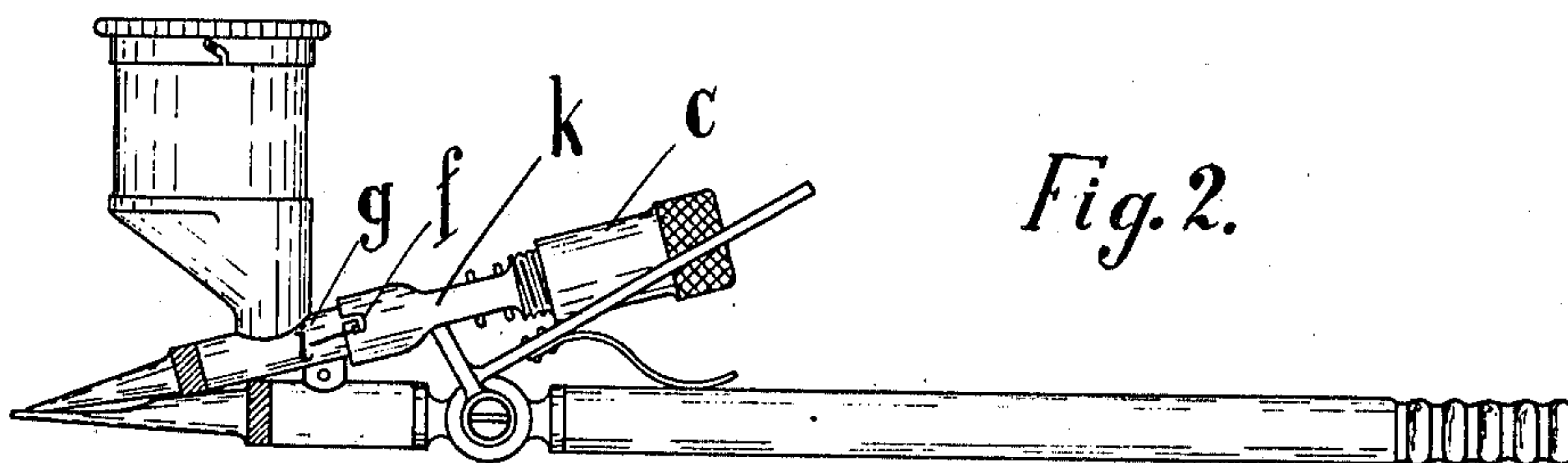


Fig. 2.



Witnesses:

Clemens Wegener.
Karl Schmitt

Inventor:

Hans Mikorey

UNITED STATES PATENT OFFICE.

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

COLOR SPRAYER OR DISPERSER.

978,469.

Specification of Letters Patent.

Patented Dec. 13, 1910.

Application filed April 28, 1908. Serial No. 429,617.

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 Sprayer or Disperser, of which the following is a specification.

10 This invention has reference to a color or dye spraying or dispersing device. It has been found, that, when the operation of the sprayers, heretofore known, is suddenly interrupted, the closing of the valve causes a
15 certain amount of color or dye to be still ejected which arrives upon the article to be coated with the color or dye, in an undispersed condition. This difficulty is especially inconvenient in the case of producing
20 delicate pieces of work by means of the sprayer, and this can only be prevented by closing the valve slowly. When the operator is eagerly at work, this necessity of avoiding to stop the sprayer too suddenly, is
25 however overlooked in most cases.

In accordance with the present invention, it is intended to produce automatically a slowing-up of the closing of the valve by braking the movement of the valve.

30 The drawing illustrates in Figure 1 in section, and in Fig. 2 in side view a sprayer or disperser, embodying my invention, by way of example.

35 According to this form of execution of the invention, the rod *a* of the valve for controlling the delivery of color, is extended rearward and is provided with a piston *b*, sliding in a cylinder *c* and acted upon by a spring *d*. The cylinder *c* is closed on all sides, with
40 the exception of a small opening *e*. Through this opening the piston *b* aspirates air, when the color valve is opened. This amount of air can escape only slowly, upon

suddenly releasing the handle for operating the valves, through the small opening *e*, so
45 that the closing of the color valve is retarded as a result of the otherwise well-known braking action of the air, inclosed in the cylinder *c*. The said braking device may of course be connected also to the air valve
50 or to the hand lever, if necessary, or it may be constructed, so as to act as a liquid actuated brake or in any other manner.

In order to be able to exchange the valve rod for the color delivery valve, the braking cylinder is secured in the example shown
55 on the drawing, to the guide *g* for the color valve by means of bayonet connection *i, f*, so as to be detachable and the cylinder *c* may be unscrewed from its support *k* which also
60 serves for the mounting of the front cover *h*, provided with the opening *e*; and the piston *b* may be unscrewed, so as to be detached from the valve rod *a*.

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

1. The combination; in a color sprayer or disperser, of an air delivery nozzle controlled by a cock, a color delivery nozzle
70 provided with a pin valve, a handle operating the air cock and the color delivery controlling valve, and an automatic braking device braking the movement of the color delivery controlling valve, substantially as set
75 forth.

2. In a color sprayer or disperser, the combination of the valve controlling the delivery of color with a self-returning piston arranged on the valve rod and sliding in a
80 cylinder having a small opening, for aspirating and slowly discharging air by means of said piston, substantially as set forth.

HANS MIKOREY.

Witnesses:

WOLDEMAR HAUPT,
HENRY HASPER.