

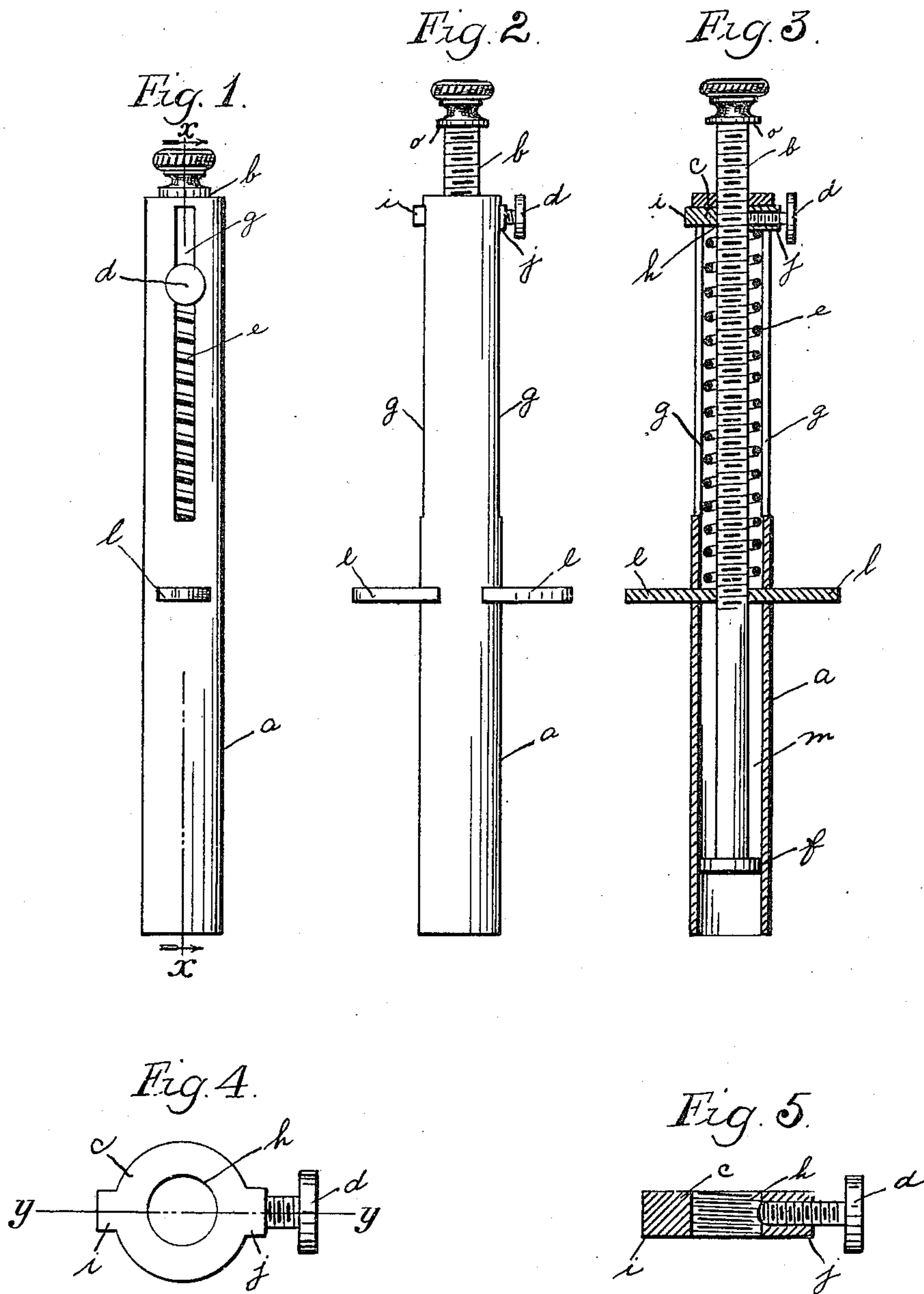
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POWDER DIVIDER.

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993,436.

Patented May 30, 1911.



WITNESSES:
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UNITED STATES PATENT OFFICE.

WILLIAM M. BURKLE AND WILLIAM C. YEAGER, OF NEW HAVEN, CONNECTICUT.

POWDER-DIVIDER.

993,436.

Specification of Letters Patent.

Patented May 30, 1911.

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To all whom it may concern:

Be it known that we, WILLIAM M. BURKLE and WILLIAM C. YEAGER, citizens of the United States, and residing, respectively, at 706 Dixwell avenue, in the city of New Haven, county of New Haven, and State of Connecticut, and No. 527 Congress avenue, in the city of New Haven, county of New Haven, and State of Connecticut, have invented certain new and useful Improvements in Powder-Dividers, of which the following is a specification.

Our invention relates to improvements in powder dividers and the object of our invention is to divide and measure any desired quantity of powder with greater accuracy and rapidity than has heretofore been obtained, and to divide and measure the said desired quantity any desired number of times without any difference in weight or in the number of grains measured between each or any of the measurements made, and to obviate the necessity of having several sized dividers, and to obviate the necessity of a re-adjustment of the parts from time to time, as is necessary in the cases of former inventions.

The details and advantages of this invention will be pointed out in the following specification, reference being had to the accompanying drawings in which—

Figure 1 is an elevation of our invention with the ejector pressed down: Fig. 2 is an elevation of our invention with the ejector held in place for the purpose of dividing the powder: Fig. 3 is a section upon the line X—X of Fig. 1 but with the parts in the positions occupied by them in Fig. 2: Fig. 4 is an enlarged plan of adjuster *c*: and Fig. 5 is a sectional view of Fig. 4 on the line *y*—*y*.

The body *a*, is equipped with the slots *g*, in which slots *g*, are inserted the extensions *i*, and *j*, of the adjuster *c*. The adjuster *c*, is equipped with the binder screw *d*, and the threaded interior *h*, and the extensions *i* and *j*, is held in place against the closed head of body *a*, by the spiral spring *e*. The spiral spring *e*, is supported by the bar *l*, which is inserted into and extends through the body *a*.

The ejector *b*, is equipped at the upper part with a screw thread and at the bottom with the disk *f*, which disk (*f*) fits snugly in the chamber *m*, the said ejector screws

into the adjuster *c*, at the threaded interior *h*, and passes through the bar *l*, and when properly adjusted as may be desired, is held in place and bound by the binder screw *d*. The binder screw *d*, is operated by screwing it into the adjuster *c*, and against the ejector *b*, holding the said ejector *b*, in place.

The extensions *i* and *j*, of the adjuster *c*, fit snugly in the slots *g*, of the body *a*, the slots *g*, acting as guides for the operative raising and lowering of the adjuster *c*. The stop *o*, on the ejector *b*, is provided for the purpose of preventing the possibility of the disk *f*'s protrusion beyond the mouth of the body *a*, and for the additional purpose of preventing the disk *f* from catching on the under side of said mouth.

The divider is used by adopting the following indicated method of operation. Having filled the chamber *m*, from the mouth of the body *a*, to the bottom of the disk *f*, the powder is ejected by placing the open end or mouth of the body *a*, into the receptacle; and by applying pressure of the thumb on the top of the ejector *b*, and holding the divider by the bar *l*, the ejector is forced downward until the lower surface of the disk *f*, by reason of the stop *o*, on the ejector *b*, is a small fraction of an inch below and beyond the extremity of the chamber *m*, at the mouth of the body *a*, carrying the powder before it and depositing the powder in the receptacle. The spiral spring *e*, then raises the ejector *b*, to its original position. If a change in the quantity of powder is desired the binder screw *d*, may be loosened, and the ejector *b*, may be rotated in either direction, according to whether a smaller or greater quantity of powder is desired, thus increasing or decreasing the size of the space in the chamber *m*, between the lower surface of the disk *f*, and the mouth of the body *a*; this is accomplished by reason of the screw thread on the upper end of the ejector *b*, which screw thread fits and rotates within the adjuster *c*, at the threaded interior *h*. When the desired dividing capacity of the chamber *m*, between the lower surface of the disk *f*, and the mouth of the body *a*, is obtained, the ejector is held in place by screwing the binder screw *d*, into the adjuster *c* and against the ejector *b*, until the ejector *b*, is held rigidly.

Having thus described our invention, what we claim is,—

1. A powder dividing instrument consisting of a body *a*, slots *g*, a powder chamber *m*,
5 a handle bar *l*, extending through said body *a*, an ejector *b*, operating within said chamber *m*, whereby the powder is ejected from said chamber *m*, substantially as described.
2. A powder dividing instrument consist-
10 ing of a body *a*, slots *g*, a powder chamber *m*, a handle bar *l*, extending through said body *a*, an ejector *b*, whereby the powder is ejected from said chamber *m*, said ejector *b* having a piston *f* at one extremity and a
15 stop *o* at the other extremity, and a screw shank between said piston *f* and stop *o*, substantially as described.
3. A powder dividing instrument consist-
20 ing of a body *a*, slots *g*, a powder chamber *m*, a handle bar *l*, extending through said body *a*, an ejector *b*, whereby the powder is ejected from said chamber *m*, said ejector *b* having a piston *f* at one extremity and a stop *o*
25 at the other extremity, and a screw shank between said piston *f* and said stop *o*, said body *a* having an adjuster *c*, said adjuster *c* consisting of the extensions *i* and *j*, a screwed interior *h* and a binder screw *d*, substan-
tially as described.
- 30 4. A powder dividing instrument consisting of a body *a*, slots *g*, a powder chamber *m*, a handle bar *l*, extending through said body *a*, an ejector *b*, whereby the powder is ejected from said chamber *m*, said ejector *b*
35 having a piston *f* at one extremity and a stop *o* at the other extremity, and a screw

shank between said piston *f* and said stop *o*, said body *a* having an adjuster *c*, said ad-
juster *c* consisting of the extensions *i* and *j*,
a screwed interior *h* and a binder screw *d*, 40
said adjuster *c* engaging the screwed shank of the ejector *b* at any desired point on said
screw shank and held at the said desired
point by the binder screw *d*, said extensions
working perpendicularly within said slots *g*, 45
substantially as described.

5. A powder dividing instrument consist-
ing of a body *a*, slots *g*, a powder chamber *m*,
a handle bar *l*, extending through said body
a, an ejector *b*, whereby the powder is eject- 50
ed from said chamber *m*, said ejector *b*
having a piston *f* at one extremity and a
stop *o* at the other extremity, and a screw
shank between said piston *f* and said stop *o*,
said body *a* having an adjuster *c*, said ad- 55
juster *c* consisting of the extensions *i* and *j*,
a screwed interior *h* and a binder screw *d*,
said adjuster *c* engaging the screwed shank
of the ejector *b* at any desired point on said
screw shank and held at the said desired 60
point by the binder screw *d*, said extensions
working perpendicularly within said slots *g*,
said body *a* having a spring *e*, said spring *e*
being confined within said body *a* and rest-
ing on the handle bar *l* and extending up to 65
and coming in contact with said adjuster *c*,
substantially as described.

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