W. VOTTELER.

PROPORTIONAL POWDER DIVIDER.

APPLICATION FILED JULY 16, 1910.

976,320.

Patented Nov. 22, 1910.

Fig. 1.

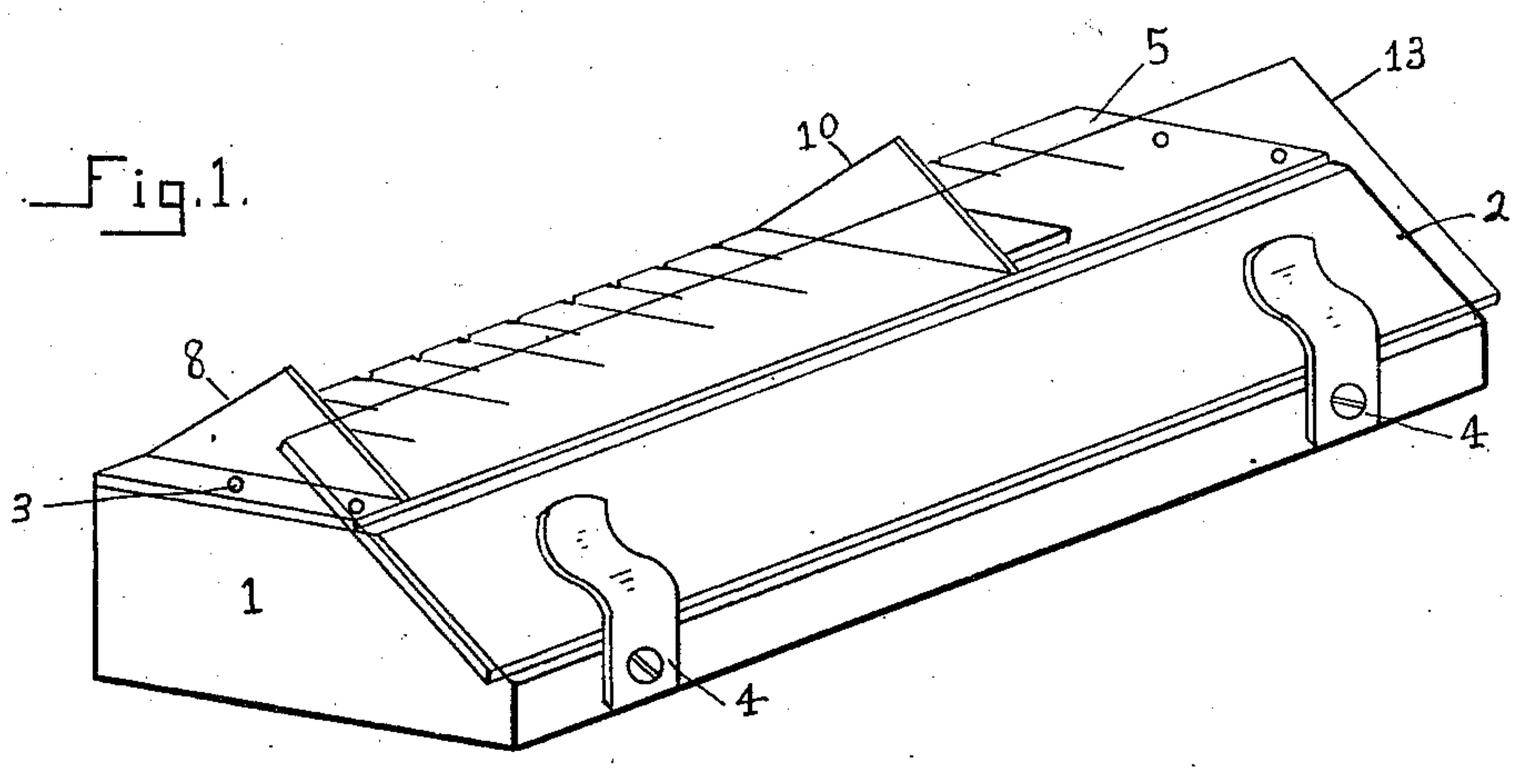



Fig. 2.

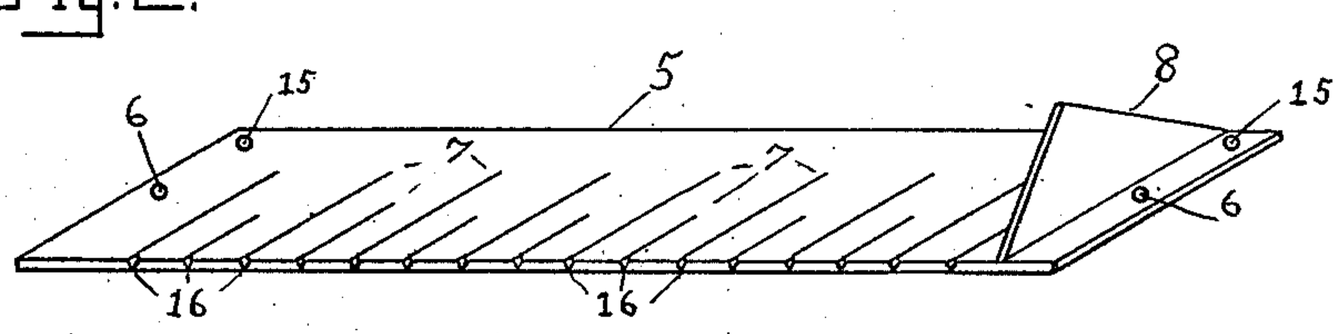



Fig. 3.

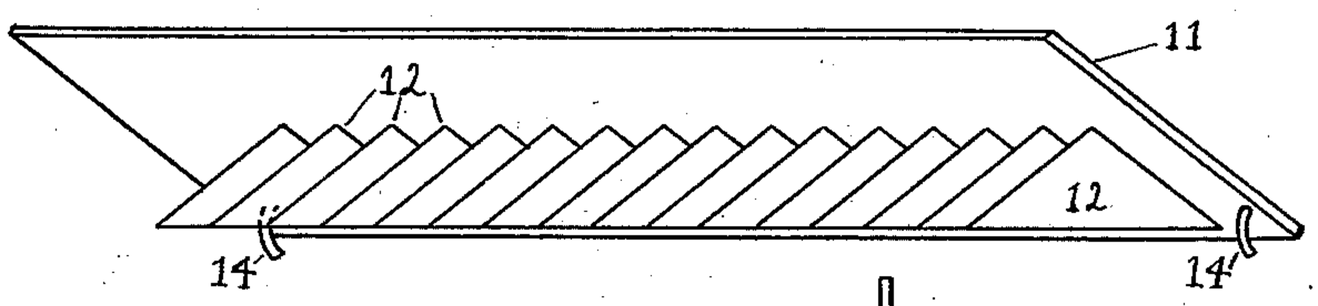



Fig. 4.

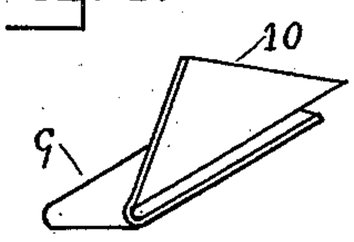
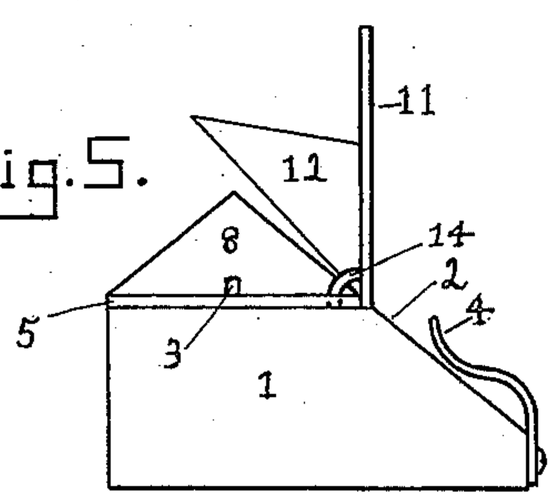



Fig. 5.

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# UNITED STATES PATENT OFFICE.

WILLIAM VOTTELER, OF LOUISVILLE, KENTUCKY.

## PROPORTIONAL POWDER-DIVIDER.

976,320. Specification of Letters Patent. Patented Nov. 22, 1910.

Application filed July 16, 1910. Serial No. 572,375.

*To all whom it may concern:*

Be it known that I, WILLIAM VOTTELER, a citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented a new and useful Proportional Powder-Divider, of which the following is a specification.

This invention relates to an improved construction of proportional divider for powders, and has for its object the production of means by which a quantity of material in powdered form may be readily and accurately divided into equal parts.

Pharmacists have constant occasion, in filling prescriptions, to divide a quantity of powder into a stated number of parts, or doses, each of which must contain the same amount, weighing is a slow and tedious method of making the division, so a large number of pharmacists resort to guess work.

My invention provides a means of making such division readily and with accuracy. I accomplish this result by the novel construction illustrated and set forth in the accompanying drawings and specification, and more fully pointed out in the claims.

In the drawings Figure 1, is a perspective view of my invention, ready for the reception of a quantity of powder. Fig. 2, is a perspective view of the division-plate. Fig. 3, is a perspective view of the adjustable end for the division-plate. Fig. 4, is a perspective view of the divisor-plate. Fig. 5, is an end elevation showing the divisor-plate in position.

Similar reference numerals refer to like parts in the several views.

Referring to the drawings, 1, indicates the base, of substantially rectangular shape, that may be of wood or other suitable material, having a beveled or inclined face, 2. Pins, 3, are arranged on the upper face of the base one near each end thereof. A spring clip, 4, is arranged to bear on the beveled face 2, near each end thereof.

5 indicates the division-plate that is adapted to fit on the base 1, being provided with perforations, 6, that fit over the pins 3, locating it properly and holding it against displacement. On the face of the division-plate 5 are scribed a series of graduations, or lines, 7, equal in number to the maximum number of portions that may be formed by the device. A vertical triangular end-piece, 8, is secured, transversely to the division-plate even with the first of the graduations 7. A spring clip, 9, adapted to embrace and slide on the plate 5 has secured to it a vertical triangular piece, 10, forming a movable end, for the plate 5, that may be set to any of the lines 7.

11 indicates the divisor-plate, in dimensions corresponding with the division-plate 5, having secured transversely thereon a plurality of triangular blades, 12, in number and position to correspond with the graduations 7 on the plate 5.

13 is the striker-plate, in dimensions corresponding with the divisor-plate 11, it is preferably of transparent material such as glass or celluloid.

The operation of my device may now be understood. The spring clip 9, bearing the end-piece 10, is placed on the division-plate 5, and adjusted to the graduation 7 indicating the number of parts into which it is desired to divide the powder to be operated on. The division-plate is then placed on the base 1, the perforations 6 fitting over the pins 3 and serving to locate the plate properly and prevent it from shifting. The striker-plate 13 is then placed in position on the beveled face 2, of the base 1, the spring clips 4 serving to hold it in position with its lower surface bearing against the rear edge of the plate 5, and the ends 8 and 10, forming a triangular space between the plates 5 and 13, and the ends 8 and 10, in which space the powder is placed. The powder is then "struck off" even with the top of the plate 13 by means of a knife, or spatula. The striker-plate 13 may be moved up or down, on the bevel face 2, so as to enlarge or diminish the size of the triangular space, under it, in which the powder is placed. The powder having been "struck off" even with the top of the plate 13, the plate 13 is removed and the divisor-plate 11 is used. The divisor-plate 11 is held vertically the hooks 14, near the lower corners thereof, are inserted in the perforations 15 in the division-plate 5, the plate 11 is then swung forward, with the hooks 14 as pivots, the blades 12 entering and dividing the powder, the plate 11 is then swung back withdrawing the blades from the powder, leaving lines of demarcation in the powder opposite each of the graduations 7, that are included between the ends 8 and 10. The division-plate 5, with the powder thereon, is removed from the base, the end 10 slid off the division-plate, and by means of a spatula, or knife, the separated por-

tions of powder are slid off the division-plate onto prepared receptacles, the spatula, or knife, is readily located in proper position for introduction into the lines of demarcation, left by the blades 12, by means of V shaped notches 16 in the edge of the plate 5, in line with each of the graduations 7.

Having thus described my invention so that any one skilled in the art pertaining thereto may make and use the same, I claim,—

1. In a device of the character described, a division-plate provided with a fixed and an adjustable end, graduations on the face and notches on the edge thereof, and a transparent striker-plate, in combination with a base provided with means for holding said plates.

2. In a device of the character described, a division-plate provided with a fixed and an adjustable end, graduations on the face and notches on the edge of said plate, a transparent striker-plate, and a base for holding said plates, in combination with a divisor-plate adapted to be removably attached to said division-plate.

3. A device of the character described, comprising a division-plate, a striker-plate, and a base provided with means for holding said plates in combination with a divisor-plate adapted to be removably attached to said division-plate, substantially as shown and described.

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Witnesses:
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