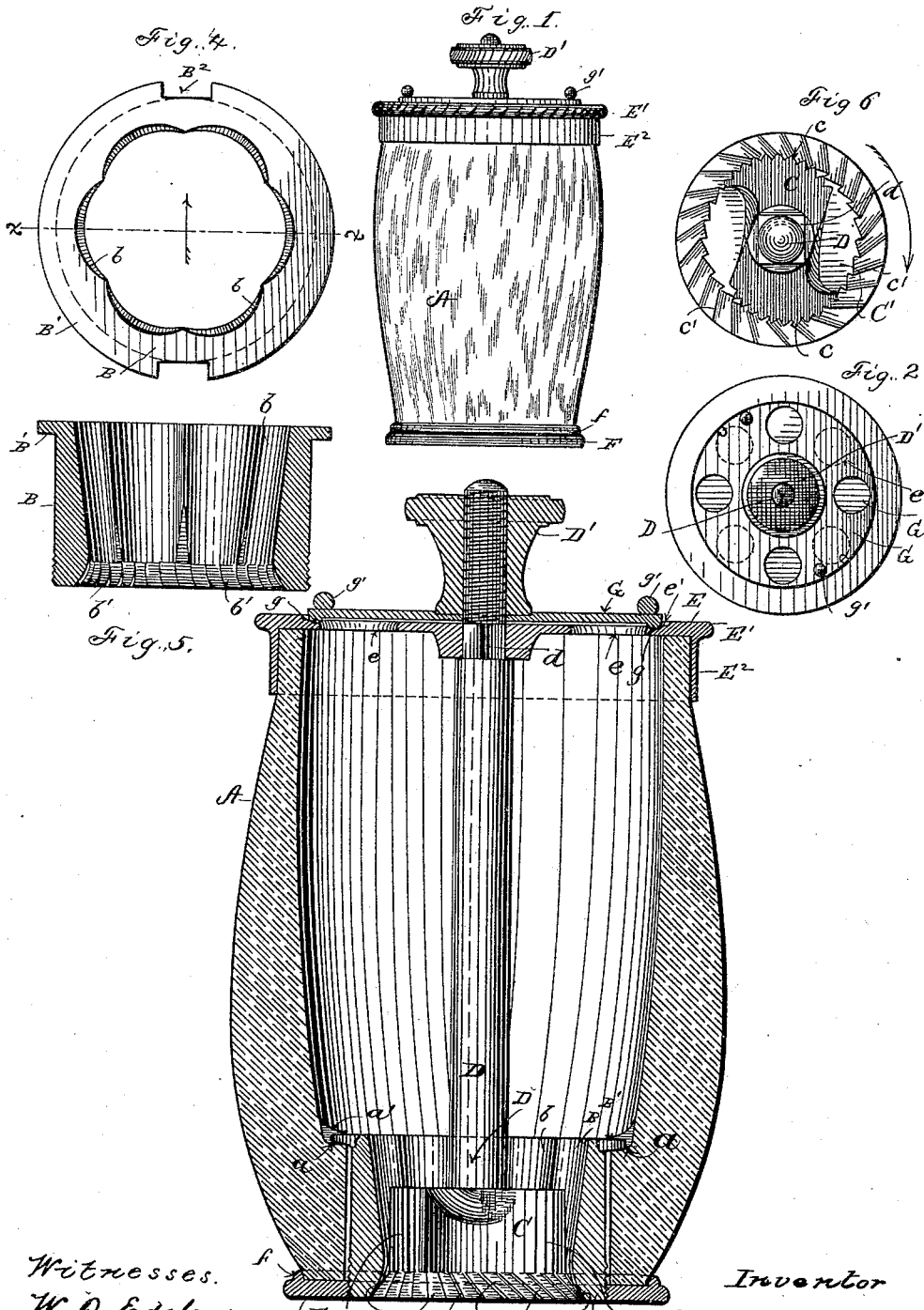


(No Model.)

H. L. MARBACH.  
COMBINED CONTAINER AND GRINDER.

No. 449,225.

Patented Mar. 31, 1891.



Witnesses.  
W. R. Edelen,  
*[Signature]*

Inventor  
Herman L. Marbach  
By Leggett & Leggett  
Attys.

# UNITED STATES PATENT OFFICE.

HERMAN L. MARBACH, OF CLEVELAND, OHIO.

## COMBINED CONTAINER AND GRINDER.

SPECIFICATION forming part of Letters Patent No. 449,225, dated March 31, 1891.

Application filed June 14, 1890. Serial No. 355,407. (No model.)

*To all whom it may concern:*

Be it known that I, HERMAN L. MARBACH, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in a Combined Container and Grinder; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

My invention relates to a combined container and grinder adapted to table use and adapted to grind the condiments as they are used.

In the accompanying drawings, Figure 1 is a side elevation showing the device in its ordinary full-size. Fig. 2 is a cover corresponding in size with Fig. 1. Fig. 3 is an enlarged elevation in section through the center of the device. Figs. 4 and 5 are respectively plan and side elevation in section of sleeve B, the same constituting the female member of the grinder. Fig. 6 is a plan of the male member of the grinder, the last three figures corresponding in size with Fig. 3.

A represents the body of the container, preferably constructed of glass, so that the internal mechanism and contents may be seen.

B is a sleeve, usually of hard cast metal, this sleeve being adapted to fit inside the lower section of the container, the sleeve having an external flange B', that rests on an internal ledge *a* of the container, flange B' having notches B<sup>2</sup>, that engage teats or lugs *a'* of the container to prevent the sleeve from turning. The lower end of the sleeve is screw-threaded externally for engaging cap F, the latter, when screwed home, engaging the lower end of the container, by means of which the sleeve is rigidly held in place, cap F having preferably an upturned flange *f*, that fits outside the lower section of the container, thereby giving a neat finish. The bore of sleeve B from the top downward to near the bottom of the sleeve is slightly funnel-shaped and the wall thereof is fluted internally, as shown at *b*. From thence to the bottom of the sleeve the bore is conical and the wall thereof is serrated internally, as shown at *b'*, these teeth being quite small.

The male member of the grinder comprises

a breaker C and a grinder proper C', these parts being integral and being rigidly mounted on spindle D. The breaker C is of approximately the inverted-S shape shown, the peripheral faces thereof being grooved or toothed vertically, as shown at *c*. Member C' is conical and has small diagonal teeth *c'* opposite teeth *b'*. Spindle D has a square section *d*, that fits in a square hole of thumb-disk E. Above the square section the spindle is round and is screw-threaded for engaging thumb-nut D'. Disk E has a milled periphery, (shown at E',) and has a depending flange E<sup>2</sup>, that fits outside the upper section of the container. The disk has one or more holes *e* of considerable size for supplying the container, for instance, with salt, unground pepper, or other condiments or material that may be desired for table use. Next above disk E and held in place by nut D' is a circular cover G, constructed of very thin sheet metal. The cover has holes G' corresponding with holes *e* of disk E, the spaces between these holes being such that cover G may be turned so as to close holes *e*. Cover G has slight teats *g* on the lower side thereof, these teats engaging slight depressions *e'* in disk E when the cover is in position, closing holes *e*. These teats are so slight that although they will hold the cover closed as against accidental displacement, still these teats do not materially interfere with turning the cover by hand to open holes *e*, the cover being provided with upwardly-projecting lugs or teats *g'* for convenience in turning the cover. When the cover has been turned so as to expose holes *e*, salt, kernels of pepper, or other spice, or fragments of nutmeg may be placed by hand in the container through these holes, after which the cover is turned so as to close holes *e*.

The grinding mechanism already described is operated by turning disk E. After filling the container and before placing the device on the table disk E should be turned until the ground material begins to discharge from the bottom, after which a slight turn of the disk will discharge and scatter a small quantity of the ground material.

In addition to the uniqueness of the device there is this advantage that unadulterated

condiments are always attainable by buying the material unground and grinding it as it is used on the table.

What I claim is—

5 1. The combination, with a container having an internal annular ledge near its lower end, a sleeve having a flange at one end adapted to rest on this ledge, screw-threads at its opposite end, and a cap threaded to  
10 screw on this threaded end of the sleeve, whereby the latter is securely held in place, of a grinder, a stem secured thereto, and means attached to the stem for turning the latter, substantially as set forth.

15 2. The combination, with a container having an internal annular ledge and a sleeve having a flange adapted to rest on the ledge, said sleeve having a funnel-shaped bore from

its top nearly to its lower end, with a fluted wall, and conical from this point to the bottom 20 and serrated internally, of a grinder comprising an approximately S-shaped breaker C and grinder proper with diagonal teeth adapted to coact with the serrations on the sleeve, a stem on the grinder, a thumb-disk 25 connected with the stem, said disk having holes therein, and a cover for opening and closing the holes, substantially as set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 30 10th day of May, 1890.

HERMAN L. MARBACH.

Witnesses:

C. H. DORER,  
WARD HOOVER.