

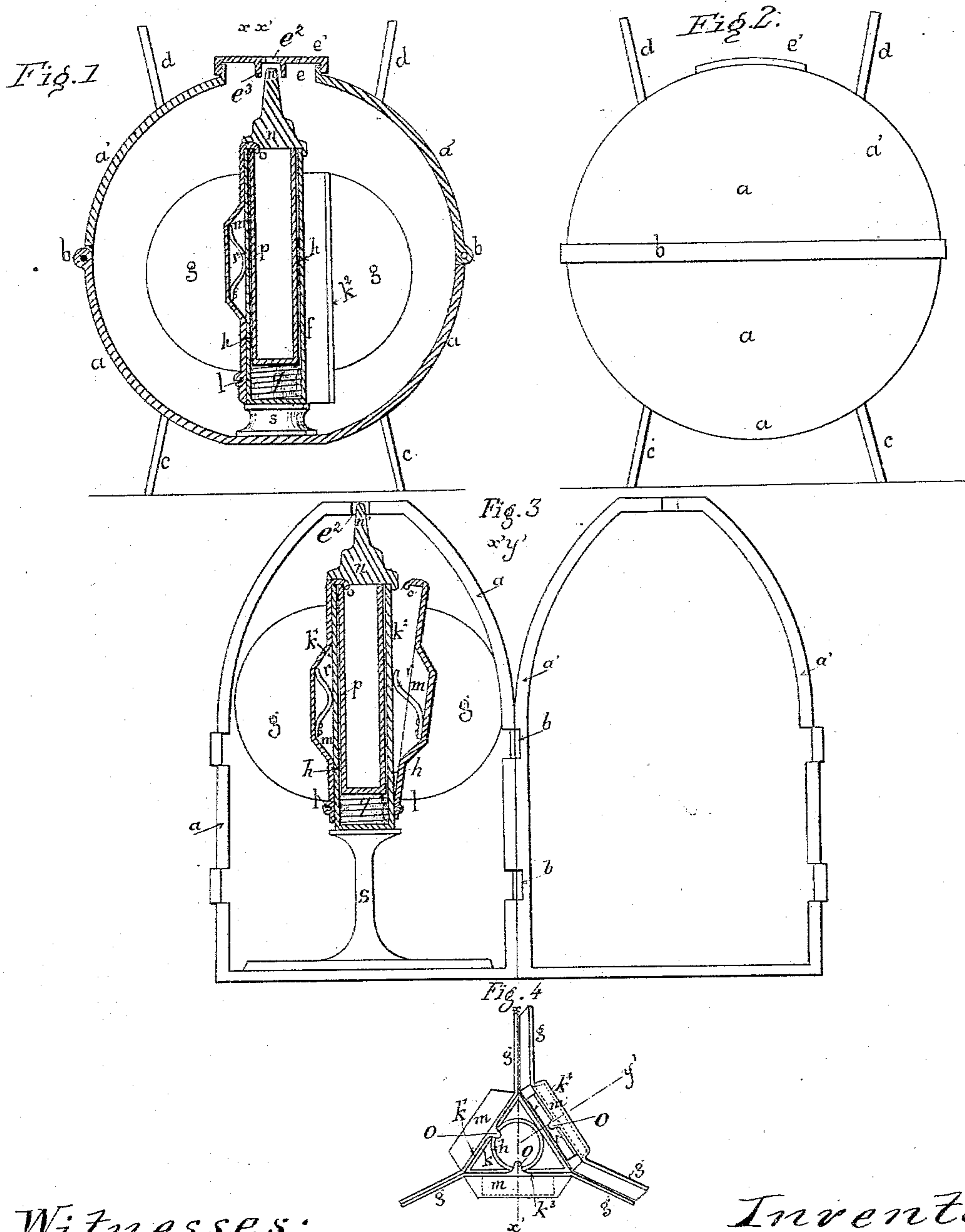
(No Model.)

S. JULIEN.

APPARATUS FOR FORMING AND DIVIDING BOMBS OR SHELLS MADE
OF ICE CREAM.

No. 356,588.

Patented Jan. 25, 1887.



Witnesses:

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UNITED STATES PATENT OFFICE.

SIMEON JULIEN, OF NICE, FRANCE.

APPARATUS FOR FORMING AND DIVIDING BOMBS OR SHELLS MADE OF ICE-CREAM.

SPECIFICATION forming part of Letters Patent No. 356,588, dated January 25, 1887.

Application filed March 19, 1886. Serial No. 195,878. (No model.) Patented in France October 17, 1885, No. 171,710, and in Belgium October 20, 1885, No. 70,594.

To all whom it may concern:

Be it known that I, SIMEON JULIEN, a citizen of France, residing at Nice, in the Republic of France, have invented a new and Improved Apparatus for Forming and Dividing Bombs or Shells Made of Ice-Cream, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved apparatus for forming and dividing bombs or shells made of ice-cream into small pieces by the use of an explosive charge, upon which invention Letters Patent have been granted in France October 17, 1885, No. 171,710, and in Belgium October 20, 1885, No. 70,594.

The invention consists of a receptacle or mold provided in its interior with a mechanism or device for cutting ice-cream into small pieces by the use of an explosive charge placed in said mechanism.

The invention also consists of various parts and details and combinations of the same, as will be described hereinafter, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a vertical cross-section of my improvement in the form of a bomb, the interior mechanism being shown in section on the line $x x'$, Fig. 4. Fig. 2 is a side elevation of the same. Fig. 3 is an elevation of my improvement in the form of a shell which is opened, the interior cutting apparatus being shown in section on the line $x' y'$, Fig. 4. Fig. 4 is a plan view of the dividing or cutting mechanism.

The receptacles or molds may be made in different forms, as represented in Figs. 1 and 3, and consist of two or more parts, a and a' , hinged together at b . The form of mold shown in Fig. 1 represents a bomb, and the form shown in Fig. 3 shows a shell. The bomb shown in Fig. 1 is provided in the upper half, a' , of the mold with an opening, e , which can be closed by a screw-cap, e' , provided with a central aperture, e^2 , and projections e^3 formed on the bottom of the screw-cap e .

The cutting apparatus rests on the lower part of the bomb or shell, having a foot, s , on the upper end of which is placed a tube, h , in which a second tube, p , fits loosely. Said tube p is closed at the bottom and rests on a coil-spring, q , placed in the bottom of the tube h . The latter is inclosed by an envelope, k , having a polygonal cross-section and having faces $k^1 k^2 k^3$, &c., which are provided at their ends with wings g . The lower ends of the faces k are hinged at l to the tube h , and the upper ends of said faces are provided with hooks o , which engage, when closed, with the upper edge of the tube p . A recess, m , is formed in the middle of each face $k^1 k^2$, or k^3 , and is provided with a spring, r , which rests against the outer face of the tube h .

A plug, n , is fitted over the upper edges of the tubes h and p , and the hooks o of the faces $k^1 k^2$, and k^3 , the upper end, n' , of said plug n being held in place either by the projection e^3 on the under side of the cap e' , as shown in Fig. 1, or by the aperture e^2 , formed on the upper end of the shell sections a and a' .

The operation is as follows: The interior of the mold is first lined or coated with a chocolate-cream mixture, and then the cutting mechanism is placed in the center of the mold in its closed position, the hooks o being engaged with the upper edges of the tubes p and h , and the plug n closing the openings of said tubes. The prepared cream is then poured into the mold so as to cover completely the cutting device, and to be incased by the lining of the chocolate-cream mixture. The entire apparatus is then placed in a freezer, so as to produce the article known as "ice-cream." After the mixture in the mold is frozen the mold is opened and the ice-cream molded in the form of a bomb or shell can be taken out of the mold, the cutting mechanism being inside and the outside of the bomb or shell having a metallic appearance given it by the chocolate covering of the ice-cream. The plug n is then removed, and the tube p is filled with an explosive charge provided on top with a powder which, when ignited, produces a colored light before the charge explodes. The ice-cream bomb or shell is then placed on the table, and the charge in the tube p is ignited so as to pro-

duce first a colored light, after which the charge in the tube explodes, whereby the tube *p* is forced downward, so as to set the hooks or catches *o* free, whereby each face *k'*, *k''*, or *k'''* is pressed outward by the force of the spring *r* in the recess *m* pressing against the tube *h*. This swinging motion of the faces of the envelope *k* cuts the bomb or shell of cream into three or more pieces, which can then be served in any desired manner.

The mold *a a'* is provided with feet *c* and with handles *d* for convenience in setting it on the table and moving it from place to place.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination of a mold with a cutting mechanism, substantially as herein shown and described.

2. The combination of a mold hinged in two or more parts, and provided with legs and handles, with a cutting apparatus inclosed by an ice-cream mixture in said mold, substantially as herein shown and described.

3. The combination of a mold hinged in two or more parts, partly filled with an ice-cream mixture, with a cutting apparatus provided

with two tubes, a coil-spring, and a dividing-envelope hinged in three or more parts to the outer tube, and provided with catches on its upper end, substantially as herein shown and described.

4. The combination of a mold made in two or more parts, *a* and *a'*, hinged at *b*, with a cutting mechanism placed in the said mold, and provided with the tube *h*, in which fits a tube, *p*, resting on a coil-spring, *q*, an envelope, *k*, consisting of three or more hinged sections, each provided with a face, *k'*, the wings *g*, and the recess *m*, the springs *r*, and plug *n*, substantially as herein shown and described.

5. A cutting mechanism consisting of the tubes *h* and *p*, the spring *q*, and the envelope *k*, made of three or more hinged pieces provided with wings *g* and catches *o*, the springs *r*, and an explosive charge placed in the tube *p*, substantially as herein shown and described.

The foregoing specification of my improvement in a new system of iced bombs or shells signed by me this 18th day of February, 1886.

SIMEON JULIEN.

Witnesses:

A. N. HATHEWAY,
A. R. HATHEWAY.