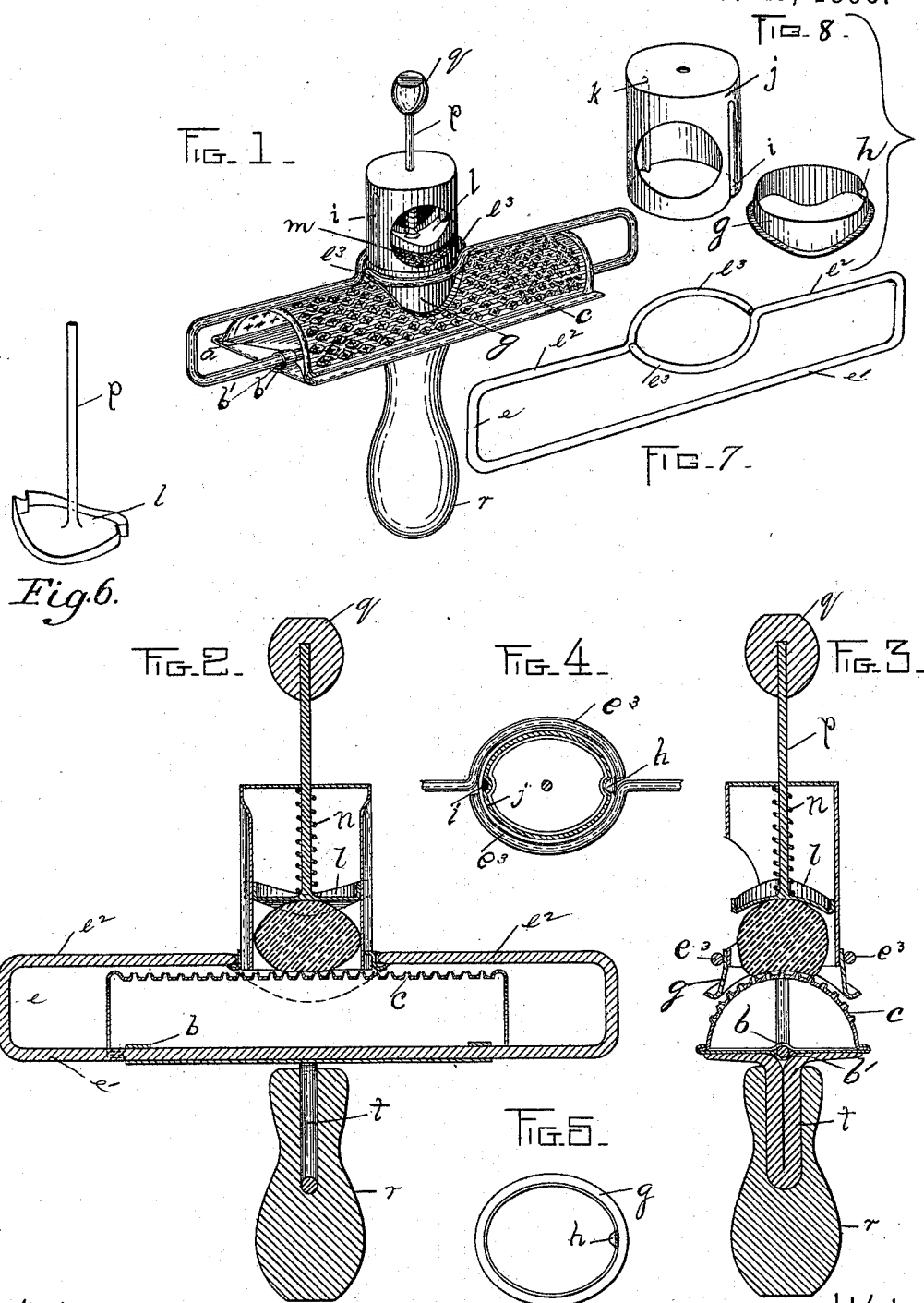


(No Model.)

C. E. DAMON.
NUTMEG GRATER.

No. 571,218.

Patented Nov. 10, 1896.



WITNESSES:
A. D. Harrison
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UNITED STATES PATENT OFFICE.

CHARLES E. DAMON, OF READING, MASSACHUSETTS, ASSIGNOR TO THE
EDGAR MANUFACTURING CO., OF SAME PLACE.

NUTMEG-GRATER.

SPECIFICATION forming part of Letters Patent No. 571,218, dated November 10, 1896.

Application filed July 31, 1896. Serial No. 601,173. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. DAMON, of Reading, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Nutmeg-Graters, of which the following is a specification.

My invention relates to nutmeg-graters such as illustrated in United States Patent No. 458,041, dated August 18, 1891, in which a grater is shown having a curved grater-plate with which a nutmeg-holder coacts, the latter having a transverse and a diagonal, as well as a longitudinal, movement relative to the said plate.

The object of the invention is to provide a grater of the character referred to with such improvements that it may be easily formed of but few and simple parts, which may be bent or stamped into shape and secured together with a minimum of labor and at a low cost. To attain these ends, I have devised a nutmeg-grater comprising a semicircular grater-plate, a nutmeg-holder, a socket for said holder, and a wire frame or carrier, all made in detached parts, which are joined together and become coacting in the manner to be hereinafter described, reference being had to the drawings accompanying and forming a part of this specification, and in which—

Figure 1 is a perspective view of the grater. Fig. 2 is a longitudinal section of the grater. Fig. 3 is a vertical section through the handle and holder. Fig. 4 is a cross-section of the cup or housing, showing a part of the holder. Fig. 5 is a plan view of the nutmeg-holder. Fig. 6 is a detail view of the follower. Fig. 7 is a detail view of the frame for the nutmeg-holder. Fig. 8 is a detail view of the cup or housing and the nutmeg-holder.

On the drawings, *a* represents a support or plate having guides or bearings *b* in alignment with the groove *b'*, concentric with the semicircular grater-plate *c*, and in which is journaled the horizontal central portion of a wire frame, to be described. The said guides or bearings are formed in extended portions of the plate *a*, which are bent directly back upon said plate, as shown on the drawings. The wire frame or carrier *e* is formed of a single length of wire, having a straight central portion *e'*, adapted to move longitudi-

nally and to oscillate or rock in the bearings or guides *b*, and the ends or arms *e''*, bent upwardly and backwardly over the semicircular grater-plate and provided with curved end portions *e'''*, collectively forming a clip or collar *f*, adapted to embrace and hold the socket *g* for the nutmeg-holder. Said socket is composed of sheet metal and has a curved face which fits over and is parallel with the semicircular grater-plate *c*. The said socket is also provided with an ear *h*, which engages vertical grooves or indentations *i* on the exterior of the nutmeg-holder *j*, to be subsequently described, said grooves or indentations forming vertical ribs *k* on the interior of said holder. The aforesaid vertical ribs engage indentations in the spring-pressed follower *l* and serve as guides therefor. The curved end portions *e'''*, forming the cup or collar of the aforesaid wire frame, may be easily pulled apart for the insertion of the socket *g*, which may then be permanently secured therein by means of solder. This being done, the nutmeg-holder, formed of sheet metal bent to circular or elliptical form and provided with an opening *m* to retain the nutmeg, is inserted into the aforesaid socket and is likewise secured therein by means of solder.

The follower *l* is provided with a vertical rod *p*, to which is attached a knob *q*, by means of which the said follower is raised for the reception of the nutmeg.

The spring *n* is composed of coiled wire, and has one end pressing against the follower *l* and the other against the top of the nutmeg-holder.

To provide a handle for my grater, I employ a rounded piece of wood *r*, provided with a small circular hole *s*, in which is forced a tang *t*, formed of a single length of wire bent together at its central point. The end portions of said wire are flattened and then bent outwardly and have the flattened portion soldered to the lower face of the plate *a*. In the prior patent mentioned above a portion of the frame or carrier and the holder were cast in one solid piece, which was an expensive operation and which rendered the grater heavier than was necessary.

The advantages of my present grater over

the former one are clearly evident. The frame or carrier is composed of a single length of wire, as before stated, which is easily bent to the form desired. The socket and the nutmeg-holder are also made of separate pieces of thin sheet metal. The collar of the frame, the socket, and the nutmeg-holder may all be soldered together to form a complete grater with all of its parts coacting.

10 Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A nutmeg-grater comprising a semicircular grater-plate having guides or bearings 15 with which its grating-surface is substantially concentric, a wire frame or carrier composed of the straight central portion to move longitudinally and rock or oscillate in said bearings, the arms bent outwardly from the ends of said central portion and backwardly over 20 the exterior of the grater-plate, said arms terminating in the curved portions which collectively form a clip or collar at the center of the frame, and a nutmeg-holder embraced by 25 said clip and held thereby in position to cooperate with the grater-plate, as set forth.

2. A nutmeg-grater comprising a semicircular grater-plate having guides or bearings 30 concentric, a wire frame or carrier formed to move longitudinally and rock or oscillate in said bearings and having a central clip or col-

lar located over the grater-plate, a sheet-metal socket embraced by and secured to said collar and having its lower edge formed to fit 35 the curvature of the grater-plate, and a nutmeg-holder inserted in said socket and secured thereto.

3. A nutmeg-grater comprising a semicircular grater-plate having guides or bearings 40 with which its grating-surface is substantially concentric, a wire frame or carrier formed to move longitudinally and rock or oscillate in said bearings and having a central clip or collar located over the grater-plate, a sheet- 45 metal socket embraced by and secured to said collar and having its lower edge formed to fit the curvature of the grater-plate, said socket having an inwardly-projecting ear, a nutmeg-holder inserted in said socket and provided 50 with a vertical indentation which forms a groove in the exterior of the holder to engage said ear and a rib on the interior of the holder, and a spring-pressed follower movable in the holder, and provided with a groove 55 to receive said rib.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 25th day of July, A. D. 1896.

CHARLES E. DAMON.

Witnesses:

C. F. BROWN,
P. W. PEZZETTI.