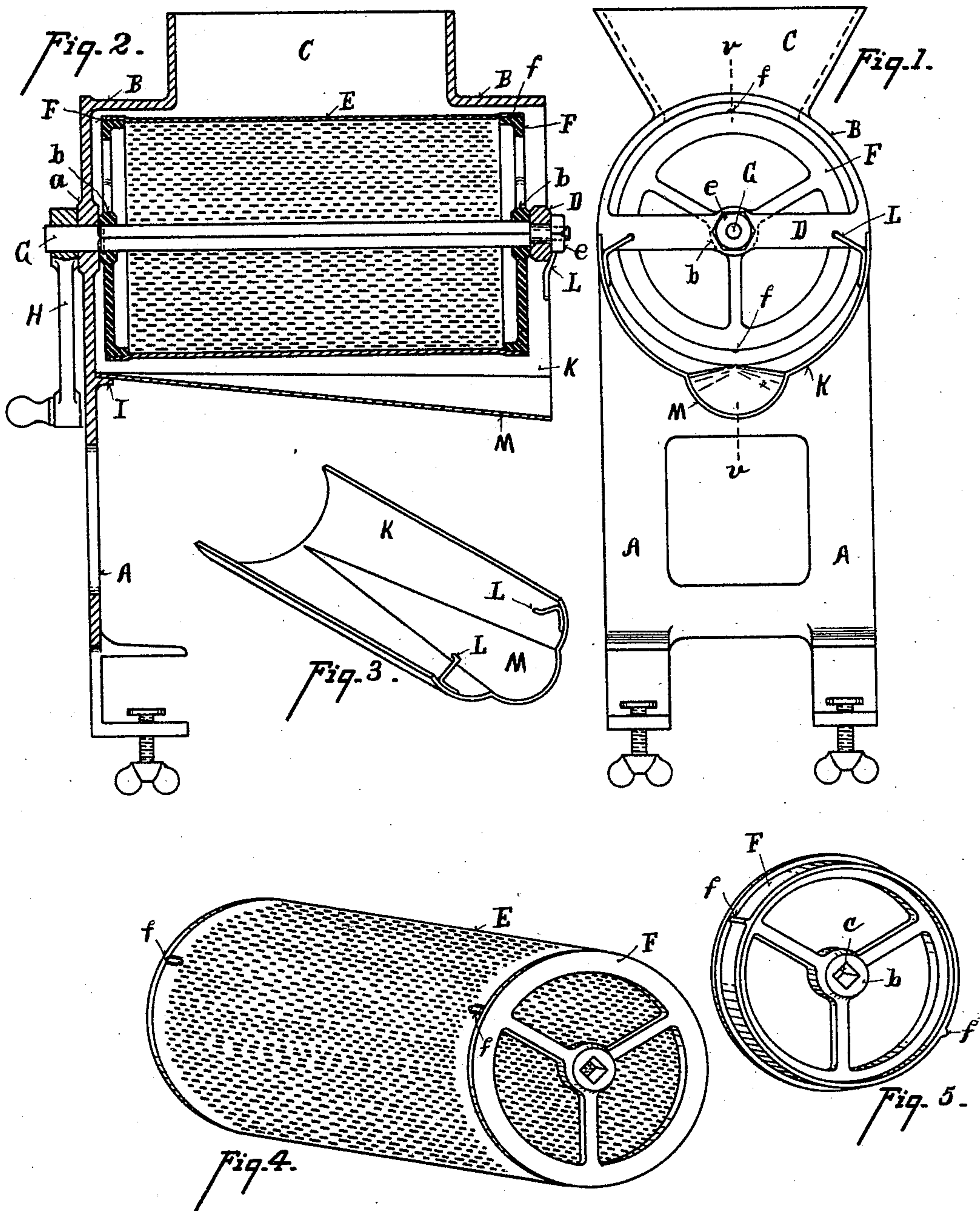


(No Model)

J. N. SCHWEIKERT & A. LUDWIG.  
GRATER.

No. 582,550.

Patented May 11, 1897.



Witnesses  
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# UNITED STATES PATENT OFFICE.

JOHN N. SCHWEIKERT AND ADOLPH LUDWIG, OF NEWPORT, KENTUCKY.

## GRATER.

SPECIFICATION forming part of Letters Patent No. 582,550, dated May 11, 1897.

Application filed September 11, 1896. Serial No. 605,471. (No model.)

*To all whom it may concern:*

Be it known that we, JOHN N. SCHWEIKERT and ADOLPH LUDWIG, residing at Newport, in the county of Campbell and State of Kentucky, have invented certain new and useful Improvements in Graters, of which the following is a specification.

The object of our invention is to provide a grater which can be readily attached to a table or shelf and readily taken apart for cleaning and put together again.

The features of our invention will be more fully set forth in the description of the accompanying drawings, making a part of this specification, in which—

Figure 1 is an end elevation of our improvement in position for use. Fig. 2 is a section on line *v v*, Fig. 1. Fig. 3 is a perspective view of the lower portion of the case. Fig. 4 is a perspective view of the grating-cylinder. Fig. 5 is a perspective view of one of the detachable heads.

A represents the legs for suspending the cylinder. B represents the upper portion of the casing; C, the hopper; D, the bridge. These parts are all cast integral.

E represents the grating-cylinder.

F represents heads which are provided with lugs *f*, entering slots in the cylinder. Said heads are provided with a spider-arm and a hub *b*, which is provided with a square shaft-opening *c*.

G represents a crank-shaft, one end of which journals in the bridge D and the other end at the frame *a*.

*e* represents a clamp-nut for holding the parts in position.

H represents the crank-arm, which is rigidly attached to the crank-shaft.

The frame is provided with a lug I, semi-circular in shape and adapted to receive the detachable segment K, one end of which rests

on said lug I, and the edges of said segment embrace the edge of the shell B. In order to hold this part in position, it is provided with spring-hooks L, the ends of which fit into orifices in the bridge D. This segment K is readily removed by releasing the spring-hooks L.

M represents a spout for discharging the grated material. This spout M is made integral with the segment K.

The grater is taken apart as follows: The segment K is pulled out endwise. The nut *e* is removed, the crank-shaft pulled out of the cylinder, and then the cylinder is removed out through the bottom opening. The heads are readily taken out and the inside of the cylinder can be cleaned. Thus the removing of a single clamping-nut allows the dismantling of the machine.

Having fully described our invention, what we claim, and desire to secure by Letters Patent, is—

1. A grater composed of a shell-frame provided with a hopper and surrounding the upper portion of the grater-cylinder, an opening at the bottom of the shell for the removal of the cylinder bodily, a crank-shaft forming a journal-support for said cylinder within said shell and detachably connected to said parts, and a segment K detachably connected to said frame below the shell and cylinder, substantially as specified.

2. In combination with a grater cylinder and shell, the detachable segment K, connected thereto by spring-hooks, and a supporting-lug, substantially as specified.

In testimony whereof we have hereunto set our hands.

JOHN N. SCHWEIKERT.  
ADOLPH LUDWIG.

Witnesses:

W. R. WOOD,  
OLIVER B. KAISER.