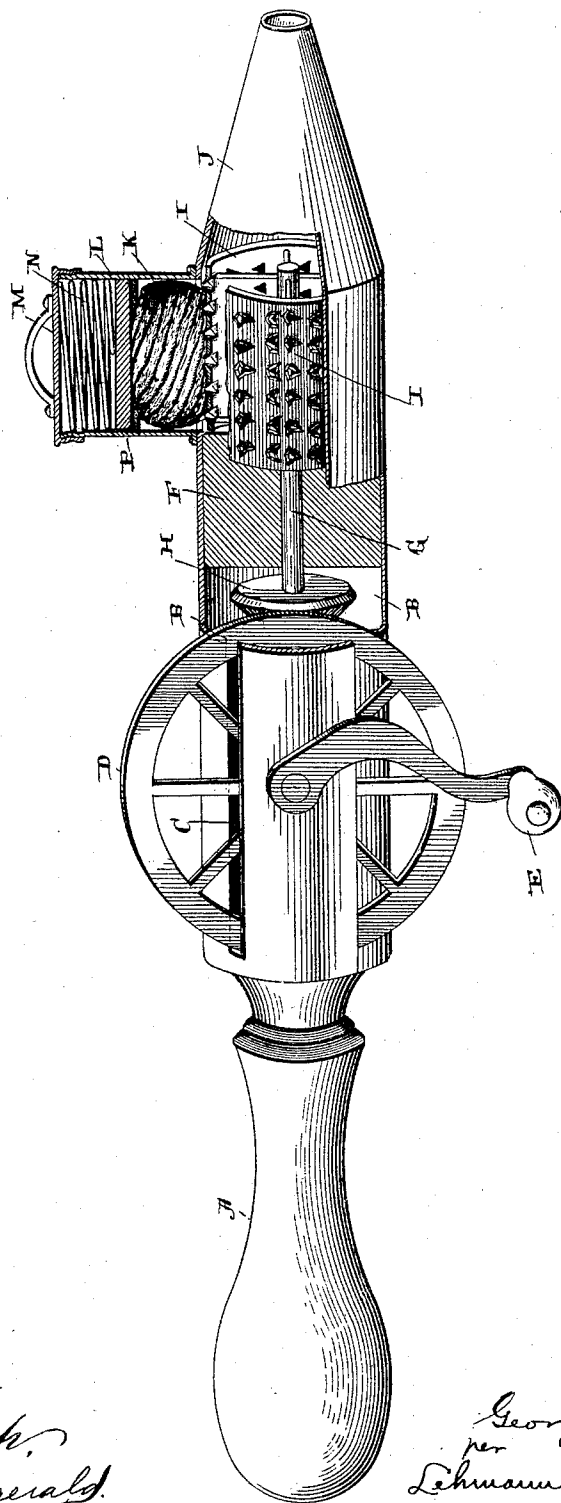


(No Model.)

G. THORN.
GRATER.

No. 477,083.

Patented June 14, 1892.



WITNESSES—

Geo. C. Trech.
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UNITED STATES PATENT OFFICE.

GEORGE THORN, OF SALT LAKE CITY, UTAH TERRITORY.

GRATER.

SPECIFICATION forming part of Letters Patent No. 477,083, dated June 14, 1892.

Application filed February 10, 1892. Serial No. 421,040. (No model.)

To all whom it may concern:

Be it known that I, GEORGE THORN, of Salt Lake City, in the county of Salt Lake and Territory of Utah, have invented certain new and useful Improvements in Graters; 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 it, reference being had to the accompanying drawing, which forms part of this specification.

My invention relates to improvements in graters; and it consists in certain novel features of construction, which will be fully described hereinafter, and particularly referred to in the claims.

The object of my invention is to provide a simple and cheap grater which is specially intended for grating nutmegs, which is constructed as hereinafter set forth, and in which the entire nutmeg can be grated quickly and the grated material fall through the end of a tube in which the operating parts are placed.

The accompanying drawing represents a perspective view of a grater embodying my invention, a portion of the tube in which the operating parts are journaled being broken away.

A indicates a handle, to one end of which is attached a tube B of a suitable length and diameter, the outer end J of the tube being, tapered and through this tapered portion J the grated material passes, and can be directed to any portion of the object being seasoned that may be desired, while at the same time the nutmeg is being grated. The inner end of this tube B is provided near its inner end with a longitudinal slot C at one side of its center, in which is placed a wheel D, that is provided with laterally and inwardly extending cogs upon its inner side. Placed within the tube B beyond the slot C and wheel D a suitable distance is a block F, which is provided with a longitudinal central opening that forms a journal-bearing for a longitudinal shaft G. This shaft G is provided with a small pinion H at its inner end, which engages with the cogs formed on the inner side of the wheel D and by means of which the shaft G is revolved when the wheel D is turned by its handle E. Secured to the outer end of this shaft G and within the tube B is a cylindrical grat-

ing-surface I, and opposite this grating-surface I and extending laterally from the tube B is a hopper or box L, in which the nutmeg K is placed to be grated. Also placed within this hopper and outside of the nutmeg, as shown, is a roughened or toothed plate P, which has a circular inner surface for engaging the nutmeg. Placed upon this plate P and bearing against the inner side of the hopper lid or cover M is a spiral or other suitable spring N, that causes a pressure upon the plate, which forces the nutmeg against the cylindrical grater I. In this manner the nutmeg is forced against the cylindrical grater as fast as it is reduced thereby and the entire nutmeg grated. The roughened plate P prevents the nutmeg from revolving while it is being operated upon by the grater I.

By means of the above construction I produce a very cheap and simple grater, which is so constructed that the tube forms a support for the driving-wheel, as seen.

Having thus described my invention, I claim—

1. A nutmeg-grater comprising a tube having a handle at one end, an operating-wheel supported within the tube, having cogs, a revolving shaft placed centrally and longitudinally within the tube, having a pinion upon its inner end, which engages the said operating-wheel, a cylindrical grater upon the opposite end of the shaft, a journal for the said shaft, and a laterally-extending hopper for the nutmeg opposite the said grater, substantially as specified.

2. A grater comprising a tube having a handle at one end, a transverse slot near its inner end, a driving-wheel journaled within the tube and placed within the said slot, a longitudinal shaft centrally journaled within the tube, a laterally-extending hopper for the material being grated, a pinion upon the inner end of the shaft, and a cylindrical grater also secured to the shaft opposite the said hopper, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE THORN.

Witnesses:

FRED. A. THORN,
J. L. ROBERTS.