J. E. LIVINGSTONE.

Nutmeg-Graters.

No. 197,383. Patented Nov. 20, 1877.

Fig. 1.

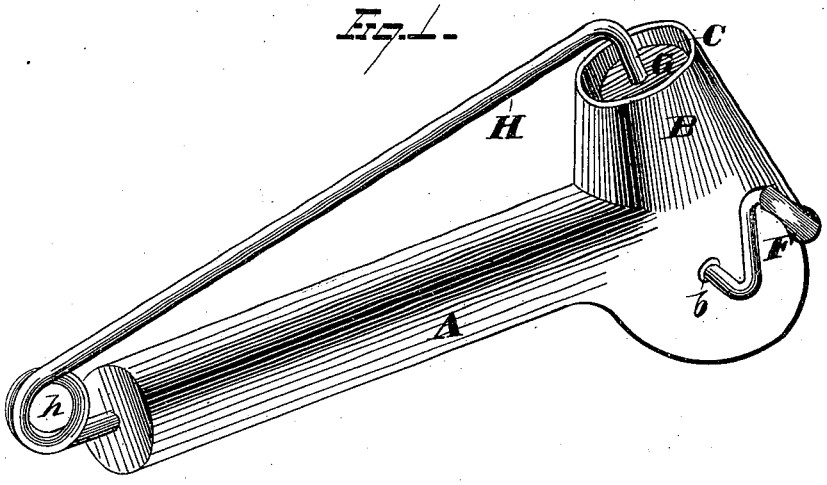
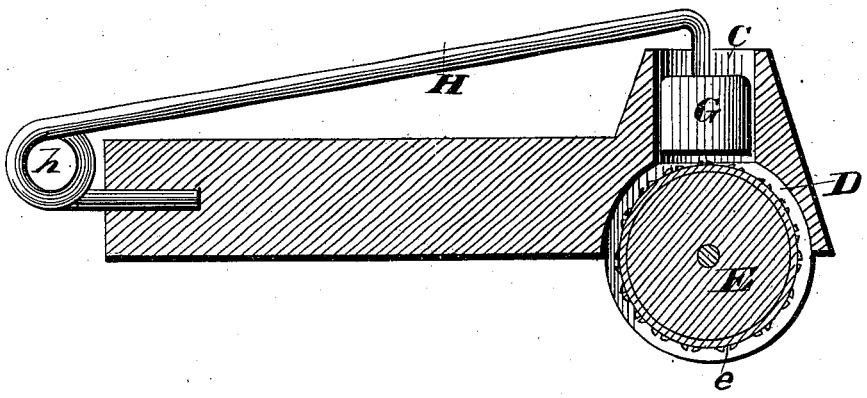


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

JOSIAH E. LIVINGSTONE, OF GOFFSTOWN, ASSIGNOR TO CHARLES H. LIVINGSTONE, OF SALEM, NEW HAMPSHIRE.

IMPROVEMENT IN NUTMEG-GRATERS.

Specification forming part of Letters Patent No. **197,383**, dated November 20, 1877; application filed March 31, 1877.

To all whom it may concern:

Be it known that I, J. EDWIN LIVINGSTONE, of Goffstown, in the county of Hillsborough and State of New Hampshire, have invented certain new and useful Improvements in Nutmeg-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 drawings, which form part of this specification.

My invention relates to certain improvements in nutmeg-graters.

Referring to the drawings, Figure 1 is a view in perspective of my device, while Fig. 2 shows the same in longitudinal section.

The body of the grater is made with a suitable handle or supporting-arm, A, having the enlarged head-piece B at its one extremity, in which the operation of grating is carried on. An annular socket, C, in the upper portion of this swelled head-piece, is of suitable size to receive a nutmeg, and immediately below the same a large slot, D, opens through the bottom of the head-piece, in which the cylinder E works, sufficient room being left between the cylinder and the walls of this slot to allow the nutmeg to pass through as ground. This cylinder is journaled in bearings on the side cheeks *b*, and is actuated in its revolution by the hand-crank F, passing longitudinally through the center of the cylinder, and transversely of the head-piece B. The perforated metallic sleeve or casing *e* surrounding the solid cylinder E, which latter is preferably made of wood, forms a harsh or grating surface, which acts as the working face of the cylinder, and upon this the nutmeg is held or borne down by the spring-pressed follower G. This latter consists of a wooden block, preferably of an upright semi-cylindrical construction, having a flat or horizontal bearing-face, between which and the cylinder the nutmeg is firmly held by the spring-wire H, the latter having the strengthening-ring formation *h* at its extremity, which engages with the handle of the grater.

The strength of the spring in itself is usually sufficient to bear the nutmeg suitably down upon the grating-cylinder, but this spring tendency can be readily increased, as desired, by the pressure of the hand of the operator as he holds the grater in operative action, while, by having the cylinder extend across the length of the grater in the full cross-section of the latter, an even and constant force is brought upon either side of the same through the journal cheek-bearings, so that there is no tendency of the grater to turn or twist.

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

The combination, with a spring-pressed follower, of the solid roller having a metallic grating-face, and journaled in line beneath the follower between cheek-pieces F, which extend below the periphery of the roller, and protect the same from contact with external objects while in use, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 24th day of March, 1877.

JOSIAH EDWIN LIVINGSTONE.

Witnesses:
JOHN M. PARKER,
CHAS. H. BARTLETT.