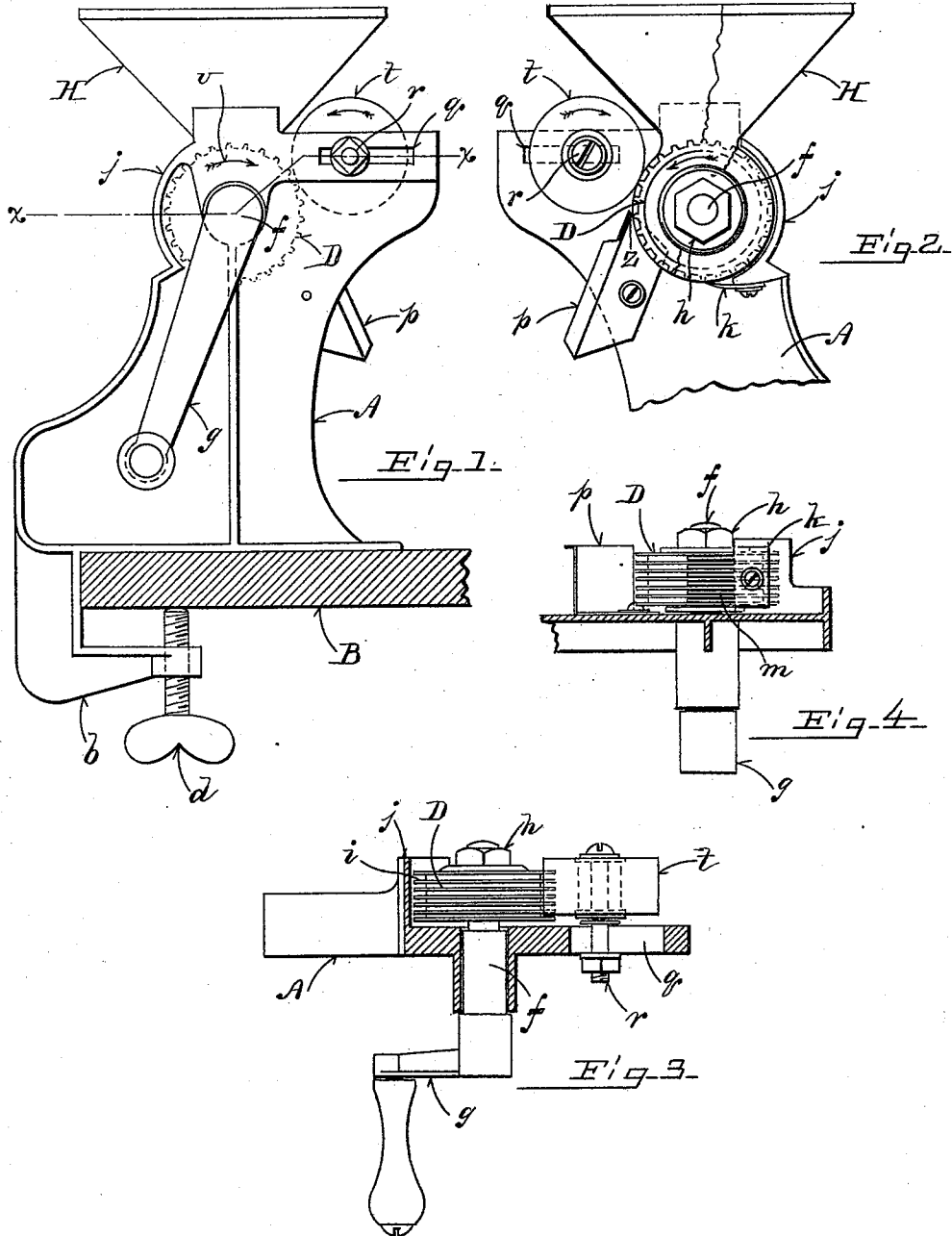


(No Model.)

W. JOHNSON.
RAISIN SEEDER.

No. 536,570.

Patented Mar. 26, 1895.



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UNITED STATES PATENT OFFICE.

WILLIAM JOHNSON, OF PLYMOUTH, MASSACHUSETTS.

RAISIN-SEEDER.

SPECIFICATION forming part of Letters Patent No. 536,570, dated March 26, 1895.

Application filed October 8, 1894. Serial No. 525,198. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM JOHNSON, of Hull, in the county of Plymouth, State of Massachusetts, have invented certain new and useful Improvements in Raisin-Seeder, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a side elevation of my improved raisin seeder; Fig. 2, a rear elevation of the same partly broken away; Fig. 3, a vertical transverse section taken on line, *x, x*, in Fig. 1; and Fig. 4, an underside plan view showing the scraper.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates especially to a device for extracting the seeds from raisins; and it consists in certain novel features hereinafter fully set forth and claimed, the object being to produce a simple, cheap and effective device of this character.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation:

In the drawings, A represents the body of the seeder which comprises a standard provided with an angle-clamping arm, *b*, through which a thumb-screw, *d*, passes to secure it in position on a support, B. A stub-shaft, *f*, is journaled in the top of the standard and is actuated by a crank-handle, *g*. The end of the shaft is threaded and a take up nut, *h*, is turned thereon. On the shaft there is a perforating wheel, D, which comprises a series of peripherally toothed disks separated by washers, *i*, as best shown in Figs. 3 and 4. Opening over the top of the wheel and secured to the standard there is a hopper, H. The standard has a curved segmental guard, *j*, formed integral therewith and which covers the rear portion of the wheel, D, and to the lower end of said guard a comb, *k*, is secured. This comb has a series of teeth, *m*, formed of spring metal which enter the wheel, D, between the disks forming the same and have their free ends engaging the washers, *i*, forming a scraper for the wheel. At the side of the wheel opposite the guard, *j*, there is a

clutch, *p*, secured to the standard. The standard is slotted horizontally at *q*, and in said slot a shaft, *r*, is held and is adjustable laterally therein. Journaled on the shaft there is a rubber-presser wheel, *t*, engaging the teeth of the perforating wheel, D.

In the use of my improvement, the raisins to be seeded are thrown into the hopper, H, and the crank, *g*, rotated. The wheel, D, moves in the direction of arrow, *v*, in Fig. 1, carrying the raisins against the presser-wheel, *t*, which by friction is moved in the opposite direction. The raisins are thereby forced against the teeth which as the wheel rotates, slit the skins in such manner that the seeds are freed and the pressure of the presser-wheel will force the seeds between the disks forming the wheel, D. After contact with the presser wheel the raisin is carried by the wheel, D, until the scraping chute, *p*, engages it, the edge, *z*, of said chute scraping the periphery of said wheel and removing the meat of the raisin which is carried down the chute. The seeds or stones are retained between the disks until the wheel has rotated far enough for the curved teeth, *m*, of the comb, *k*, to engage and remove them, from which they drop onto the support, B, or into any suitable receptacle.

The presser-wheel is so gaged that only sufficient pressure is exerted to slit the skin at the side adjacent the wheel, D, and force the seed into said wheel. The skin against the presser-wheel is uninjured and the meat clings to it.

Having thus explained my invention, what I claim is—

In a raisin-seeder the rotary perforating wheel mounted on a standard and having peripheral grooves in combination with the flexible presser wheel, *t*, adjustable on said standard and engaging the periphery of said perforating wheel; the hopper; the scraping-chute, *p*, engaging the periphery of the perforating wheel below the presser-wheel; and the comb having teeth projecting into the grooves of the perforating wheel for detaching the raisin-seeds after they pass the scraping-chute.

WILLIAM JOHNSON.

Witnesses:

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