T. H. ELLIOTT.

RAISIN SEEDER.

APPLICATION FILED SEPT. 4, 1907.

962,201. Patented June 21, 1910.

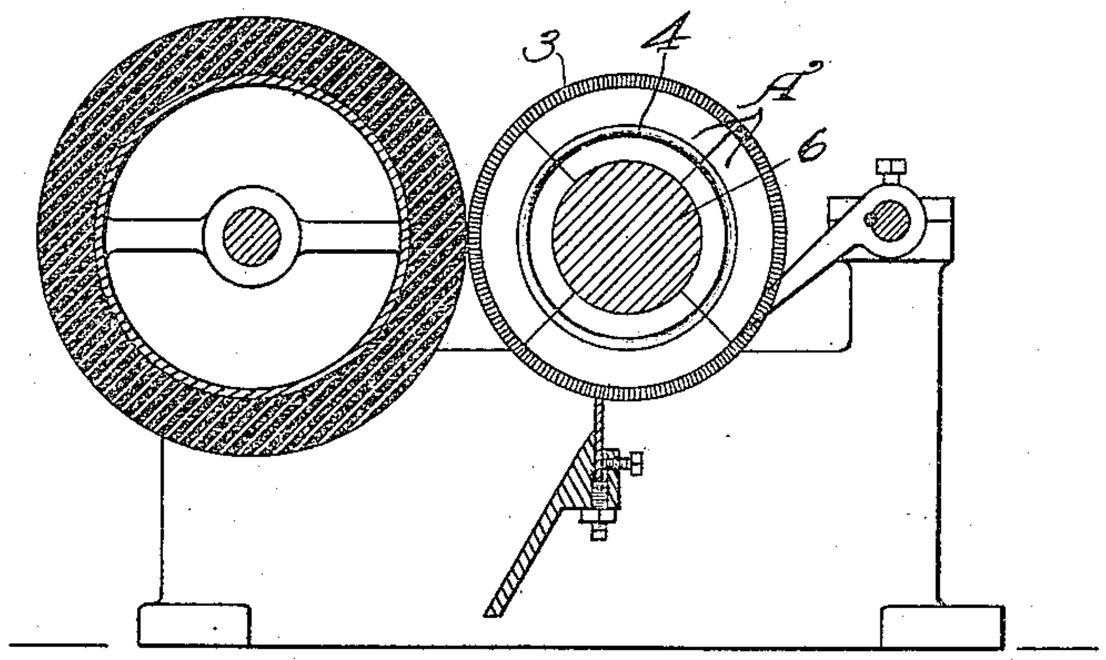

Fig. 1.

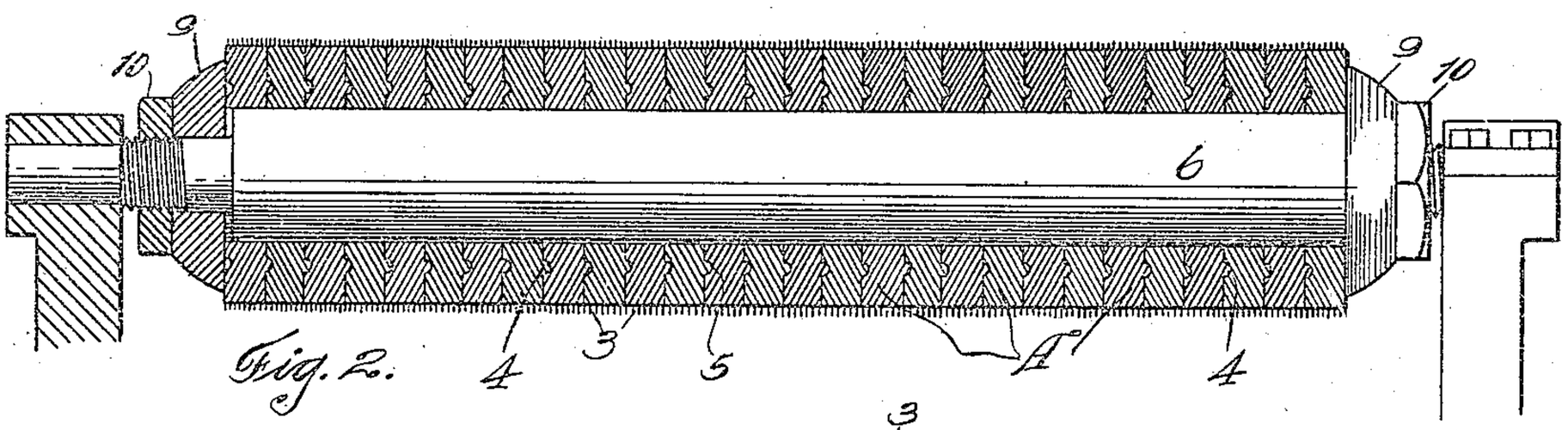

Fig. 2.

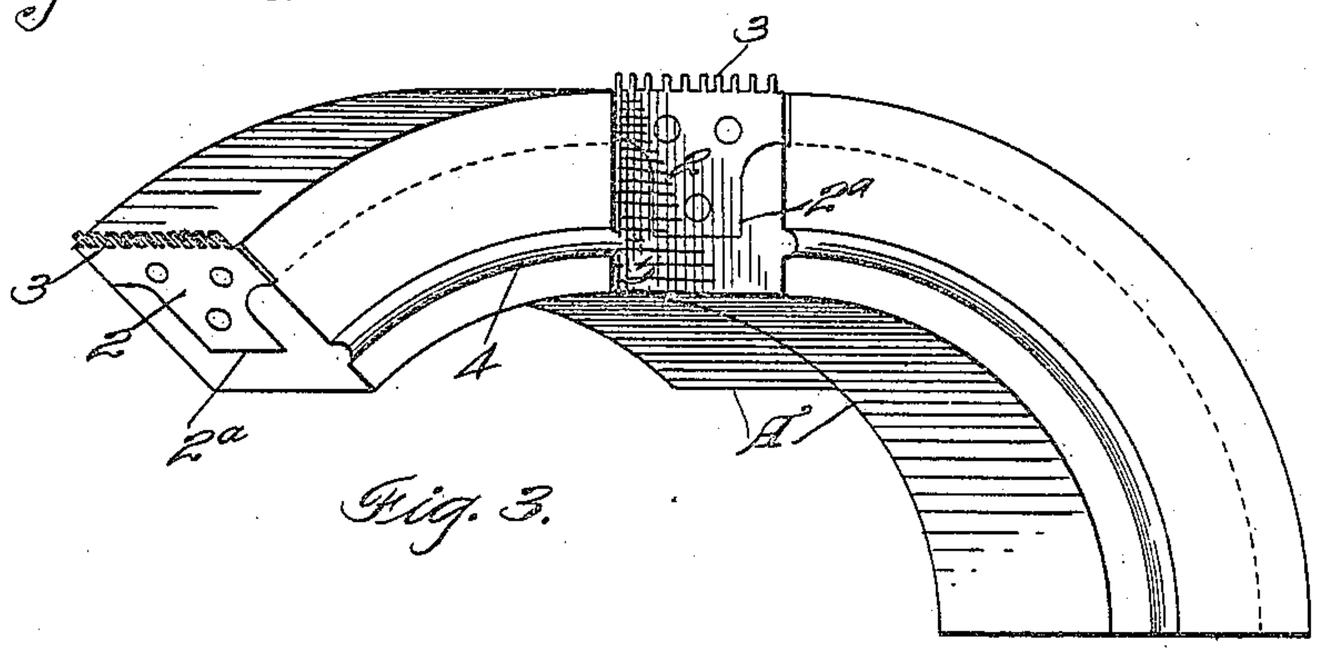

Fig. 3.

Witnesses;
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UNITED STATES PATENT OFFICE.

THOMAS H. ELLIOTT, OF SELMA, CALIFORNIA, ASSIGNOR TO SELMA FRUIT COMPANY, INC., OF SELMA, CALIFORNIA.

RAISIN-SEEDER.

962,201. Specification of Letters Patent. Patented June 21, 1910.

Application filed September 4, 1907. Serial No. 391,326.

To all whom it may concern:

Be it known that I, THOMAS H. ELLIOTT, citizen of the United States, residing at Selma, in the county of Fresno and State of California, have invented new and useful Improvements in Raisin-Seeders, of which the following is a specification.

My invention relates to improvements in apparatus for removing the seeds from raisins and like fruit, and separating the parts.

It consists of the parts and construction and combination of parts hereinafter described and claimed.

Referring to the accompanying drawings for a more complete explanation of my invention—Figure 1 illustrates a form of raisin-seeding machine in cross section. Fig. 2 is a longitudinal sectional view of the pin drum. Fig. 3 is a perspective view of the segments showing only a single pin plate in each.

In my invention I employ a cylindrical drum made of a series of segments, such segments being built up with radially toothed plates, and a base or matrix in which these plates are solidly held so that the teeth project outwardly from the periphery of the segments, and at such a distance apart as to form channels or spaces into which the soft portion of the fruit is pressed by the action of a soft pressing roller, while the seeds are arrested or impaled upon the ends of the teeth, and are prevented from entering the intermediate space by reason of the nearness of the teeth together.

In the revolution of the toothed drum, the teeth are caused to first pass a device which serves to remove the seeds which remain upon the ends of the teeth, and subsequently to pass a device or devices which will remove the pulp of the fruit from the channels between the teeth.

In my invention, I construct the drum or cylinder of a series of segments A. These segments may be of any suitable or desired number, which when placed together will complete a circular section of the drum, and as many of these sections may be placed end to end as may be found necessary to form the seeding apparatus. I have found that a thickness of one and 1/16 inches upward is very suitable for the purpose.

The segments may be formed in several ways. I have found that by the use of plates 2 having the teeth 3 formed upon one edge, and embedding these plates in a body of metal which forms the segment A, a very suitable construction presents itself. One way of forming these segments is by taking plates having a length equal to the proposed thickness of a segment, and arranging the plates parallel with each other and transversely of the proposed segment, the teeth forming a periphery which will have an arc that will form a drum or cylinder of the desired diameter. The plates are so placed that the transverse channels and the peripheral channels will be respectively in continuous planes. The plates may be made with openings through them, and with the inner portions reduced in diameter, as shown at 2^a, and when thus arranged in a suitable mold or form, molten metal, such as type metal, is filled in, filling the space around the reduced portion, and locking the plates firmly in place. These segments, thus formed, have upon one side a protruding rib 4, which is concentric with the internal and external peripheries of the segments, and upon the opposite side a corresponding groove or depression 5. The interior periphery of the segments is of such a curvature that the segments may be mounted upon a central drum or shaft 6, which is suitably journaled at each end. There may be as many of these segments as are required to make up the proper length of the drum. Such a drum may be, for example, thirty inches in length, and if the segments are about two inches in length, it would take fifteen of the short cylinders formed by these segments, to give the desired length. These segments are held together endwise by suitable clamping disks or washers, as at 9, and nuts 10, turning upon screw-threaded ends of the shaft, so that when clamped solidly together the ribs and grooves 4 and 5 interlock and hold them in place.

The meeting joints of the segments may be so disposed that the joints in one cylindrical set will coincide with the solid portion of the adjacent sections, thus forming a lock for all the sections which prevents their being separated.

If by reason of breakage of teeth, or other reason, it be desired to remove any of the segments, it is only necessary to inclose the portions of the drum on either side of the segments to be removed, then by loosening the clamping nuts 10 and slightly separating

the sections, the one to be removed is left free, and can be taken out and replaced with but little loss of time.

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

1. In a fruit seeding machine, a revoluble cylinder formed of a series of rings placed side by side, each of said rings being composed of a plurality of metallic segments, and plates embedded in the body of metal which forms the segments said plates having teeth formed upon one edge, the teeth of the plates forming one set of channels which circumscribes the ring and a second set of channels which are arranged transverse of the first channels and parallel longitudinally of the ring, the bottom of the two channels being substantially coincident with each other and with the outer circumference of the ring.

2. In a fruit seeding machine, a cylinder comprising rings having cast metal segments with members of an interlockable connection upon opposite sides, and impaling elements comprising serrated plates having bases cast and embedded in the material of the segments whereby the plates are supported in the segments.

3. In a fruit seeding machine, a revoluble cylinder composed of a series of annular rings placed side by side, said rings consisting of a plurality of cast metal segments having spaced serrated plates extending transversely of the segments, and said plates having the inner ends cast and made substantially integral with the substance of the rings.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

THOMAS H. ELLIOTT.

Witnesses:
S. H. NOURSE,
F. E. MAYNARD.