

W. C. ANDERSON.
IMPALING ROLL FOR FRUIT SEEDING MACHINES.
APPLICATION FILED FEB. 21, 1910.

1,062,315.

Patented May 20, 1913.

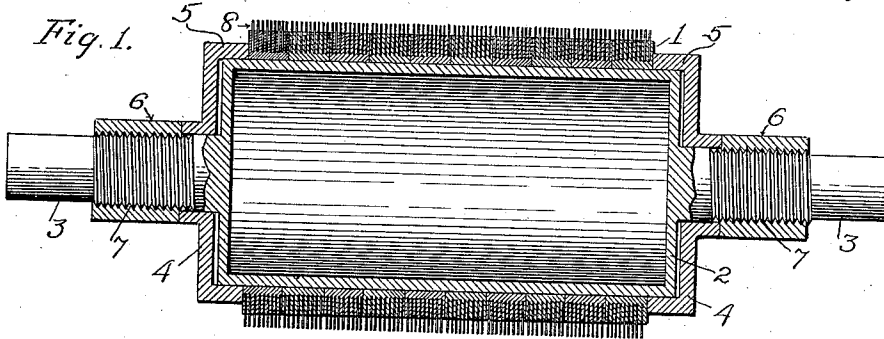


Fig. 2.

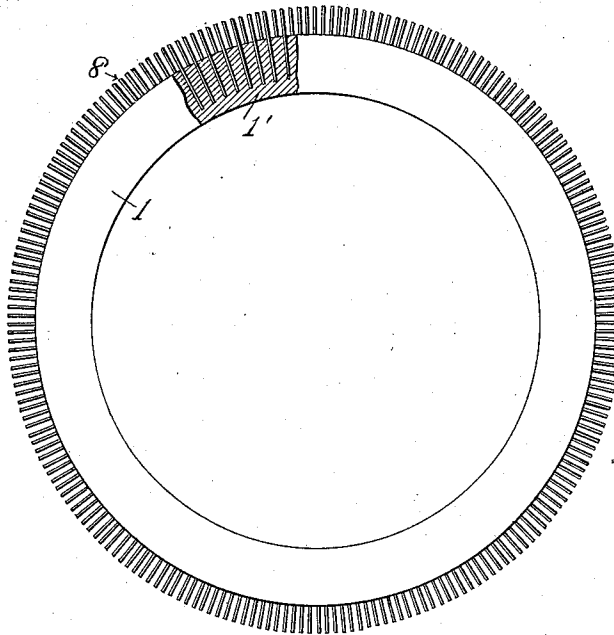
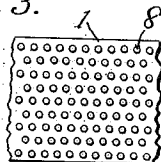


Fig. 3.



Witnesses:
Louis W. Gratz
Lute A. Allen

Inventor
William C. Anderson
By Townsend Lyon & Haerley
His Attys

UNITED STATES PATENT OFFICE.

WILLIAM CLARENCE ANDERSON, OF SAN JOSE, CALIFORNIA.

IMPALING-ROLL FOR FRUIT-SEEDING MACHINES.

1,062,315.

Specification of Letters Patent.

Patented May 20, 1913.

Application filed February 21, 1910. Serial No. 545,222.

To all whom it may concern:

Be it known that I, WILLIAM C. ANDERSON, a citizen of the United States, residing at San Jose, in the county of Santa Clara, State of California, have invented a new and useful Impaling-Roll for Fruit-Seeding Machines, of which the following is a specification.

This invention relates to machines for seeding fruits, such for example as raisins, and more particularly to the provision of an improved impaling roll for machines of the general type illustrated in Letters Patent of the United States, No. 56,721, dated July 31, 1866, to J. B. Crosby.

One object of the present invention is to provide an impaling roll with a durable impaling surface.

Another object of the invention is to provide an impaling roll with a plurality of separately assembled sections, thereby facilitating the assemblage and repair of the roll.

A further object of the invention is to provide means whereby the impaling pins are rigidly and firmly held in position on the roll and are effectually supported against the inward radial pressure incurred in the operation of the roll.

Another object of the invention is to provide an impaling roll wherein the pins are arranged in staggered relation so as to be equidistant in various directions, thereby insuring proper spacing of the pins for effectual ejection of the seeds.

Other objects of the invention will appear hereinafter.

The accompanying drawings illustrate the invention, and referring thereto, Figure 1, is a longitudinal section of the roll in assembled condition. Fig. 2, is a side elevation, partly in section, of one of the roll sections. Fig. 3, is a fragmentary view of a portion of the face of one of the roll sections.

The roll comprises a series of annular sections, 1, mounted end to end on a suitable support, such support consisting, for example, of a mandrel or drum 2 carried by shaft

means 3 and clamping disks 4 having flanges 5 extending over the periphery of the said drum, screw sleeves or nuts 6 being provided screwing on a screw threaded portion 7 of the shaft means 3 at each end to force the disks 4 inward to clamp the series of sections 1 between the flanges 5.

Each section 1 consists of a ring of cast metal in which are embedded the impaling pins 8. Said pins project outwardly beyond the peripheral face of the ring 1 and extend into the cast metal of the ring a sufficient distance to hold the pins firmly in place, the metal of the ring sections being cast onto the pins 8 in any suitable manner. It is preferred to cast the metal of the ring sections 1 in such manner that it extends not only around the pins 1 but within the inner end of said pins, the inner face of the ring being separated from the inner end of the pins by a portion 1' of cast metal which serves to support the pins against radial inward pressure due to the impaling action.

Each roll section 1 is provided with a plurality of circumferential rows of impaling pins 8, and said pins are arranged in staggered relation on the roll sections 1, the pins in each circumferential row being circumferentially intermediate the pins in the adjacent circumferential row, so that each pin is equidistant from the six surrounding pins and equidistant spacing of the pins is thereby provided insuring the most effective operation of the pins in ejecting the seeds.

In the impaling operation it is essential that the pins should be sufficiently close together to insure that every seed will encounter one or more of the pins and be ejected thereby, and at the same time it is requisite that as much space as possible shall be left for the passage of the pulp between the pins, and that the mutilation of the raisins by the pins shall be a minimum. This result is attained most effectively when the pins are equidistant, as the most uniform operation upon the raisins is thereby secured.

What I claim is:—

An impaling roll section for fruit seeding

machines, comprising a cast metal ring with
a plurality of circumferential rows of im-
paling pins embedded therein and project-
ing therefrom, the pins in adjacent rows be-
5 ing in staggered relation and the pins being
arranged in equidistant relation.

In testimony whereof, I have hereunto set

my hand at San Jose California, this 14th
day of February, 1910.

WILLIAM CLARENCE ANDERSON.

In presence of—

F. E. WEAVER,

F. L. BURRELL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."
