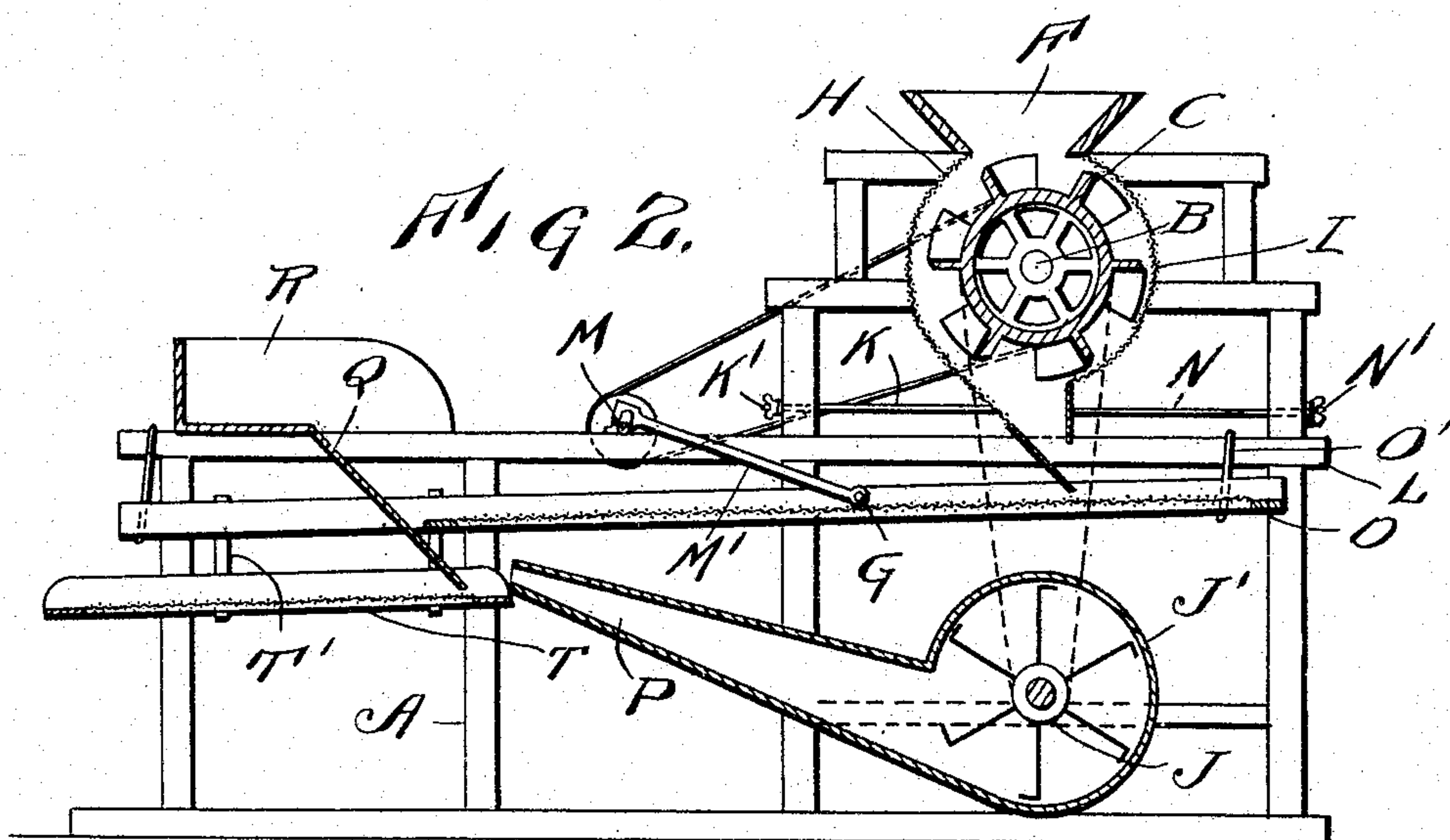
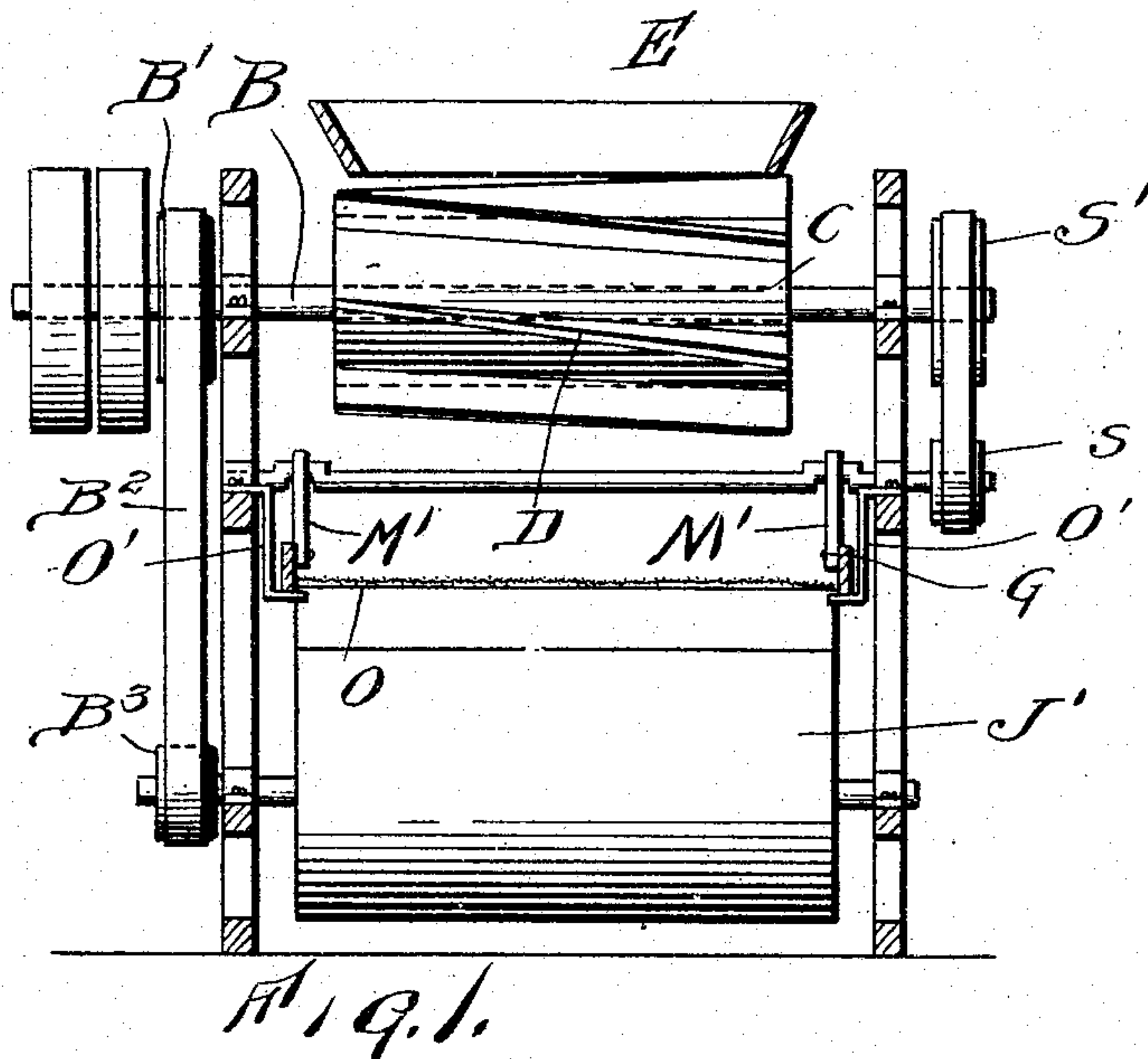


W. H. NOLAND.  
CAP STEMMER AND RAISIN CLEANER.  
APPLICATION FILED AUG. 5, 1909.

939,073.

Patented Nov. 2, 1909.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

WILLIAM H. NOLAND, OF FRESNO, CALIFORNIA, ASSIGNOR OF ONE-THIRD TO E. A. STALLINGS AND ONE-THIRD TO T. B. HARDY, OF FRESNO COUNTY, CALIFORNIA.

CAP-STEMMER AND RAISIN-CLEANER.

939,073.

Specification of Letters Patent.

Patented Nov. 2, 1909.

Application filed August 5, 1909. Serial No. 511,369.

*To all whom it may concern:*

Be it known that I, WILLIAM H. NOLAND, a citizen of the United States, residing at Fresno, in the county of Fresno and State of California, have invented certain new and useful Improvements in Cap-Stemmers and Raisin-Cleaners, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to new and useful improvements in apparatus for stemming and cleaning raisins and comprises an apparatus having various details of construction and combinations and arrangements of parts which will be hereinafter fully described and then specifically defined in the appended claims.

My invention is illustrated in the accompanying drawings, in which:—

20 Figure 1 is a side elevation of my improved apparatus, and Fig. 2 is a vertical sectional view through the same.

Reference now being had to the details of the drawings by letter, A designates a frame of any suitable construction in which a shaft B is journaled and to which shaft a cylinder C is fixed having arranged upon its circumference in spiral form a series of metallic wings D, preferably of steel, and immediately over said cylinder is a hopper E. Fixed to the opposite edges of the hopper and the exit portion thereof are the two concaved screens H and I. A rod K is fastened at one end to the screen H and passes through an aperture in an upright post A' of the frame, and K' designates a winged nut mounted upon the threaded end of said rod and affording means whereby the rod may be moved longitudinally for the purpose of adjusting the screen H relative to the cylinder. A second rod, designated by letter N, is fastened to the screen I and passes through an aperture in one of the pulleys of the frame and has a thumb screw N' mounted upon the threaded end thereof and provided for the purpose of adjusting the screen I relative to the cylinder.

50 Mounted underneath the screens and cylinder is a shaker O having links O' supporting the same, said links engaging over the horizontally disposed bars L of the frame. A suitable wind board Q is disposed at an inclination upon the frame and projects downward from the flanged box R. A fan, desig-

nated by letter J, is mounted in suitable bearings in the apertures and is inclosed within a casing J' from which leads a tapering passageway P having an exit end adjacent to a second shaker T mounted upon the suspending hooks T', which latter are supported by the shaker O. The shaft B is provided with a pulley B' about which a belt B<sup>2</sup> passes, which also passes about a second pulley B<sup>3</sup> upon the shaft carrying the fan.

65 A crank shaft, designated by letter M, is journaled in suitable bearings in the frame and has crank arms M' pivotally connected to each crank of the shaft, said arms having pivotal connection with the pins G upon the shaker O. The crank shaft is provided with a pulley S which has belted connection with a pulley S' upon one end of the shaft B.

The operation of my invention will be readily understood and is as follows:—The raisins to be capped, stemmed and cleaned are placed in the hopper and, as they come in contact with the rapidly rotating wings upon the cylinder, they are thrown violently against the adjustable screens upon either side and thus severing the stems and the raisins as they fall upon the shaker O beneath and which is given a vibratory movement sufficient to cause the raisins to travel down the inclined shaker and, as they come in contact with the wind board, the blast from the fan through the passageway P will cause all foreign matter remaining with the raisins to be blown into the dirt box, allowing the raisins to fall upon the shaker beneath which also is given a vibratory movement, thus causing the raisins free from the foreign matter to be delivered from the shaker T.

What I claim to be new is:—

1. An apparatus for capping, stemming and cleaning raisins, comprising a frame, a rotatable cylinder with spirally arranged blades thereon, a hopper over said cylinder, adjustable concaved screens mounted about the cylinder, means for adjusting said screens, a shaker positioned underneath said screens and cylinder, means for vibrating the shaker, a second shaker supported by the first shaker, a fan, a passageway leading therefrom intermediate the two shakers, an inclined wind board positioned intermediate the shakers



and extending underneath the exit end of the upper of the shakers and in alinement with the passageway leading from the fan.

2. An apparatus for capping, stemming  
5 and cleaning raisins, comprising a frame, a rotatable cylinder with spirally arranged blades thereon, a hopper over said cylinder, adjustable concaved screens mounted about the cylinder, means for adjusting said screens,  
10 a shaker positioned underneath said screens and cylinder, means for vibrating the shaker, a second shaker supported by the first shaker, a fan, a passageway leading therefrom in-

intermediate the two shakers, an inclined wind board positioned intermediate the shakers 15 and extending underneath the exit end of the upper of the shakers and in alinement with the passageway leading from the fan, and a box positioned upon the frame and connected to said wind board. 20

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

WILLIAM H. NOLAND.

Witnesses:

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