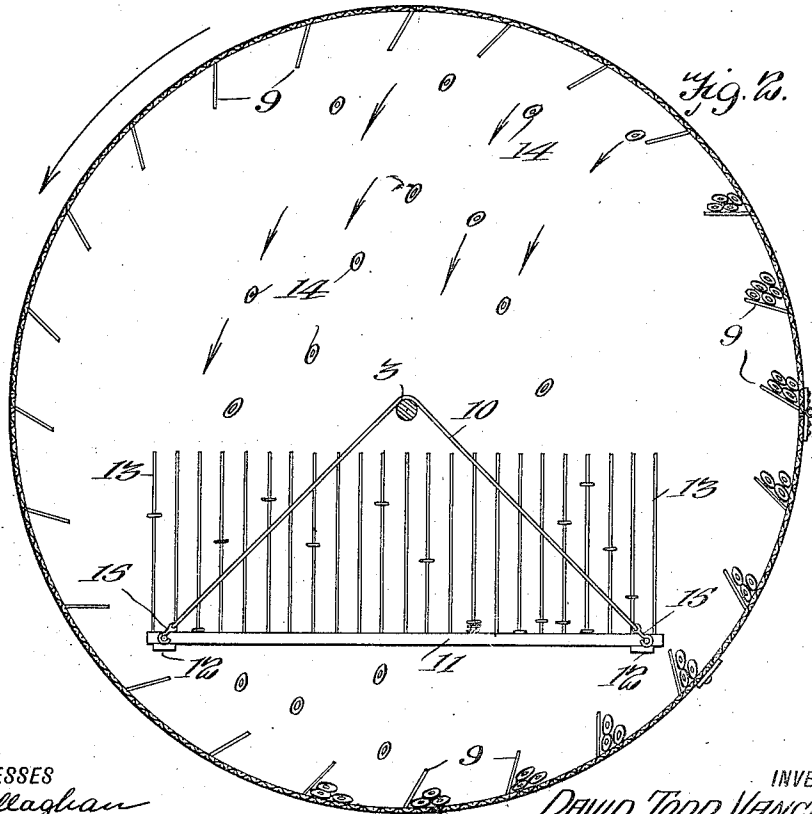
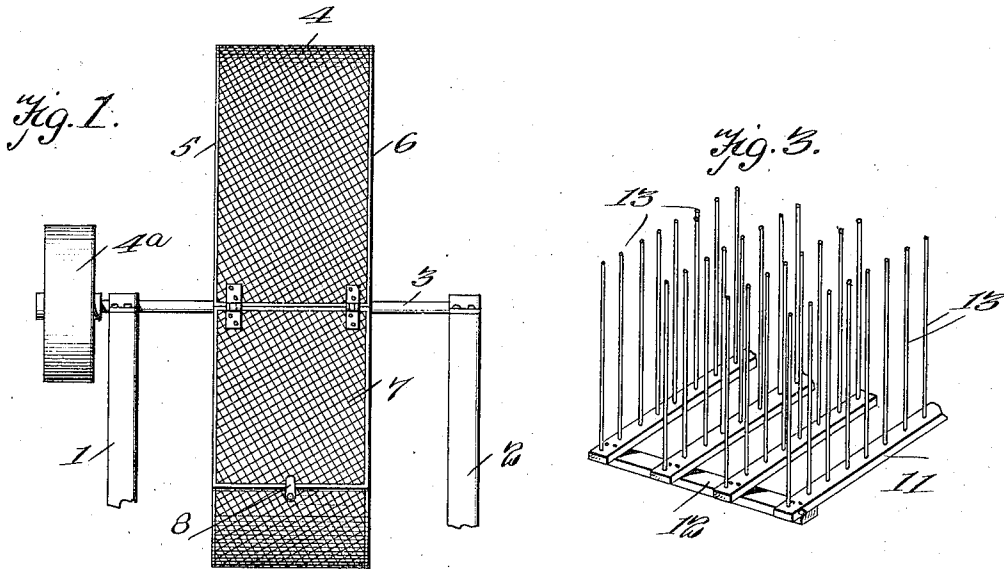


D. T. VANCE.
 WASHER STRINGER.
 APPLICATION FILED MAY 2, 1912.

1,060,515.

Patented Apr. 29, 1913.



WITNESSES
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DAVID TODD VANCE, OF PLUMTREE, NORTH CAROLINA.

WASHER-STRINGER.

1,060,515.

Specification of Letters Patent.

Patented Apr. 29, 1913.

Application filed May 2, 1912. Serial No. 694,788.

To all whom it may concern:

Be it known that I, DAVID TODD VANCE, a citizen of the United States, and a resident of Plumtree, in the county of Avery and State of North Carolina, have made certain new and useful Improvements in Washer-Stringers, of which the following is a specification.

My invention relates to improvements in devices for stringing washers made of mica or other similar material, and it consists in the combinations, constructions, and arrangements herein described and claimed.

An object of my invention is to provide a device which will string the washer without any attention on the part of an operator.

A further object of my invention is to provide means for separating the waste and broken portions of the washers from the stringing washers.

A further object of my invention is to provide a similar device for stringing washers which is positive in operation and which is comparatively cheap to build.

Other objects and advantages will appear in the following specification, and the novel features of the invention will be particularly pointed out in the appended claims.

My invention is illustrated in the accompanying drawings forming part of this application in which—

Figure 1 is an end view of the device, Fig. 2 is a vertical section through the casing at right angles to Fig. 1, and Fig. 3 is a perspective view of the stringer frame.

In carrying out my invention, I provide a pair of uprights 1 and 2 upon which is journaled a shaft 3 bearing a pulley 4^a at one end. Mounted upon the shaft 3 is a casing composed of wire mesh 4 bent into a circular form, ends 5 and 6 being provided for forming a closed receptacle, these ends being secured to the shaft 3 and revolving therewith. At 7 I have shown a hinged door in the periphery of the casing which may be closed by a latch 8. Within the casing is a series of shelves 9 which project inwardly, but not radially, being inclined at an angle to the radius of the circular casing as shown in Fig. 2.

Suspended from the shaft 3 by means of wires or rods 10 is a frame like that shown in Fig. 3, this frame consisting of the longitudinal strips 11 and end strips such as that shown at 12. The longitudinal strips

bear upright arms or fingers 13 spaced apart, upon which the washers are to be strung.

From the foregoing description of the various parts of the device the operation thereof may be readily understood.

The washers 14 are placed in the interior of the casing through the door 7, the latch 8 being then secured. The case is then revolved by power applied through the pulley 4^a in the direction shown by the arrow in Fig. 2. The washers 14 are carried upwardly in the pockets until they are above the fingers 13, upon which they fall. Many of the washers, of course, will not fall so as to be strung on the fingers 13, but a certain proportion will be strung every time the wheel goes around. It is therefore only a question of time when all will be strung.

The frame can be removed by loosening the hooks 15 at the ends of the rods 10 when the washers have accumulated upon the fingers.

I claim:—

1. In a device for stringing washers, a normally closed receptacle arranged to receive the washers, a series of upright fingers disposed within said receptacle each of said fingers being adapted to enter the opening in any of said washers, said receptacle being capable of rotating around said fingers, and means carried by said receptacle for carrying the washers above said fingers and projecting them downwardly upon said fingers.

2. In a device for stringing washers, a shaft, means for rotating said shaft, a normally closed receptacle carried by said shaft, a series of vertically extending fingers within said receptacle each of said fingers being adapted to enter the opening in any of said washers, and a series of pockets carried by said receptacle on the inner surface thereof for receiving washers, the rotation of said receptacle serving to carry the washers above the fingers and to project them downwardly upon the fingers.

3. In a device for stringing washers, a shaft, bearings therefor, a cylindrical closed receptacle secured to said shaft, the axis of the shaft and the receptacle being coincident, a series of vertically extending fingers disposed within said receptacle each of said fingers being adapted to enter the opening in any of said washers, a frame for supporting said fingers, means for supporting the frame from the shaft, a series of shelves ex-

tending inwardly from the inner surface of the receptacle, said shelves forming supports for the washers, and the rotation of said receptacle serving to project the washers
5 from the shelves upon the vertically extending fingers.

4. In a device for stringing washers, a shaft, bearings therefor, a cylindrical closed receptacle secured to said shaft, the main
10 portion of said receptacle consisting of a cylindrical screen, the axis of the shaft and the receptacle being coincident, a series of vertically extending fingers disposed within said receptacle each of said fingers being

adapted to enter the opening in any of said 15 washers, a frame for supporting the frame from the shaft, a series of shelves extending inwardly from the inner surface of the receptacle at an angle to the radial line
20 through the shaft, said shelves forming supports for the washers, and the rotation of said receptacle serving to project the washers from the shelves upon the vertically extending fingers.

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Witnesses:

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