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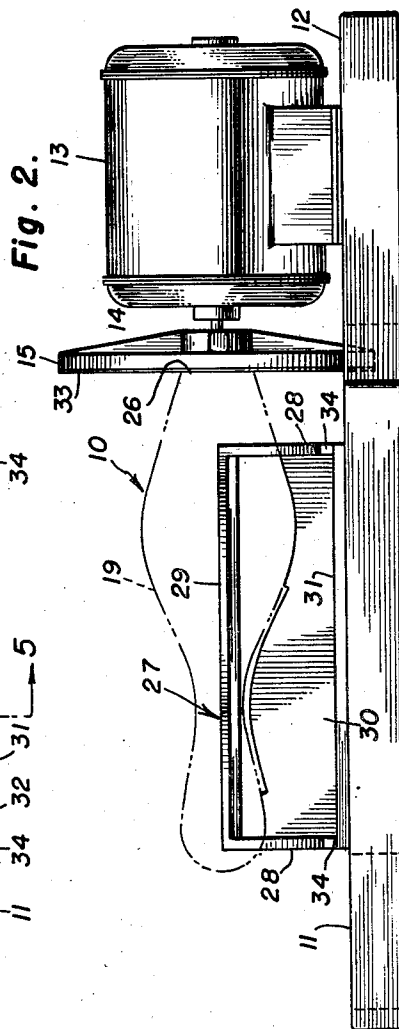
A. C. VACANTI ET AL

2,457,509

DRESSING MACHINE FOR BOWLING PINS

Filed April 3, 1947

3 Sheets-Sheet 1



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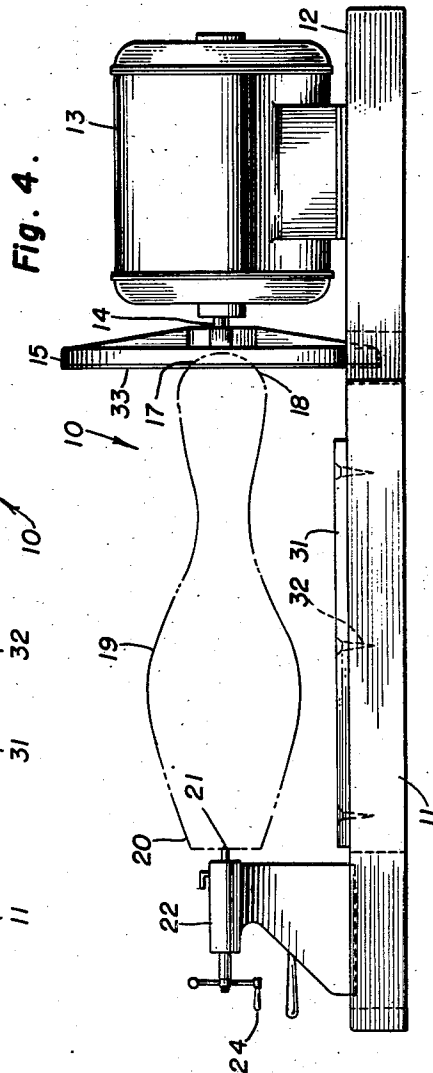
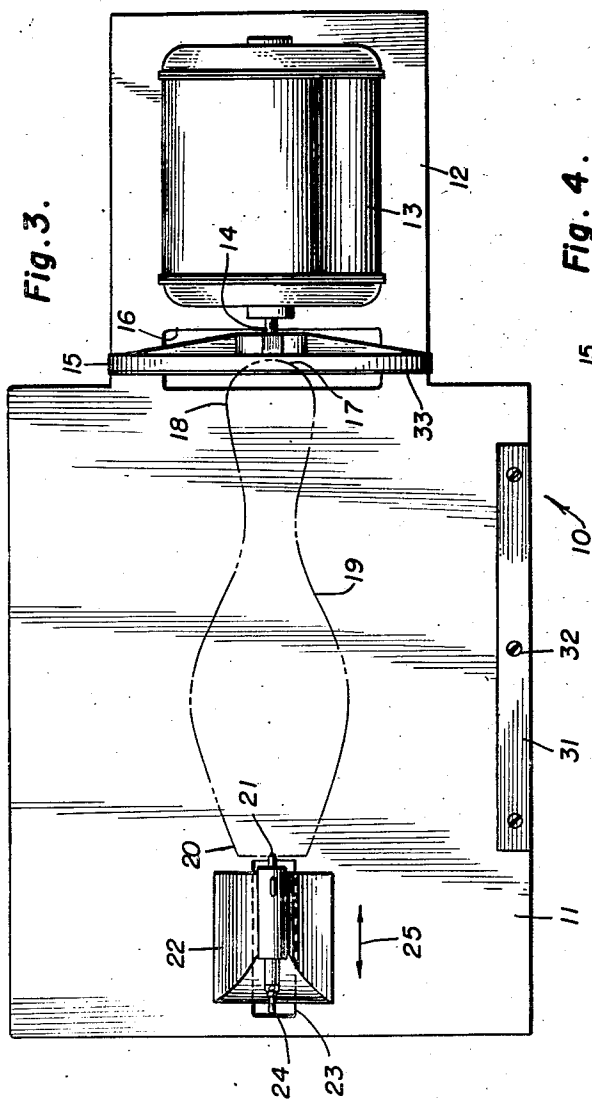
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3 Sheets-Sheet 2



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3 Sheets-Sheet 3

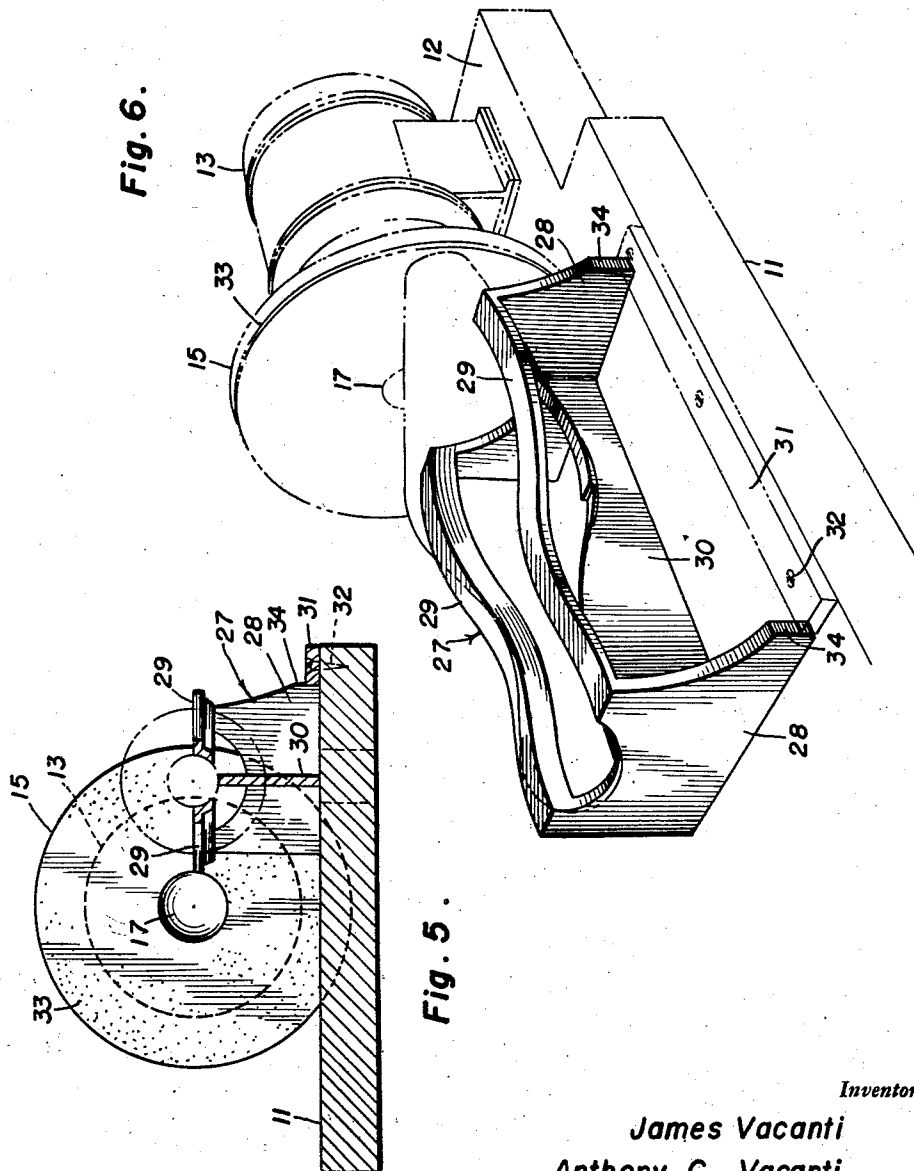


Fig. 5.

Fig. 6.

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UNITED STATES PATENT OFFICE

2,457,509

DRESSING MACHINE FOR BOWLING PINS

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Application April 3, 1947, Serial No. 739,222

1 Claim. (Cl. 51-125)

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This invention relates to new and useful improvements and structural refinements in dressing machines for bowling pins, and the principal object of the invention is to provide a device of the character herein described, such as may be conveniently and effectively employed for dressing both, the base surface and the lateral surface of such pins.

A further object of the invention is to provide a dressing machine in which the bowling pin may be quickly and easily applied or removed and which may be conveniently manipulated.

Another object of the invention is to provide a dressing machine which is simple in construction, which will readily lend itself to economical manufacture, and which is otherwise well adapted for the purpose for which it is intended.

With the above more important objects in view and such other objects as may become apparent as this specification proceeds, the invention consists essentially of the construction and arrangement of parts as shown in the accompanying drawings in which:

Figure 1 is a top plan view of the invention, showing the same in readiness for dressing the base surface of the bowling pins;

Figure 2 is a side elevation of the device illustrated in Figure 1;

Figure 3 is a top plan view, similar to that shown in Figure 1, but illustrating the invention in readiness for dressing the lateral surface of the pin;

Figure 4 is a side elevation of the device shown in Figure 3;

Figure 5 is a cross-sectional view, taken substantially from the plane of the line 5-5 in Figure 1, and;

Figure 6 is a perspective view of a bowling pin holder used in the invention, showing the positional relationship thereof with respect to some of the remaining components, illustrated in phantom lines.

Like characters of reference are used to designate like parts in the specification and throughout the several views.

Referring now to the accompanying drawings in detail, the invention consists of a dressing machine designated generally by the reference character 10, the same embodying and in its construction an elongated base plate or bed 11, one end portion of which may be reduced in width, so as to form what may be referred to as a platform 12 for a suitable electric motor 13.

The armature shaft 14 on this motor carries

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a face plate 15, and if desired, the bed 11 may be formed with a suitable recess 16 in order to accommodate the lower portion of face plate, as will be clearly apparent.

The plate 15 is provided at the center thereof with a concave recess 17 which is adapted to engage the rounded end portion 18 of the bowling pin 19. The base portion 20 on the bowling pin rotatably engages a center point 21 of the tail stock 22, the latter being of the more-or-less conventional design and being removably secured to the bed 11 by virtue of a further recess 23 with which the bed is provided.

It should be understood that the tail stock 22 is adjustable, that is, the center point 21 may be projected or retracted longitudinally by means of a suitable hand crank 24 and also, that the position of the tail stock with respect to the recess 23 may be longitudinally adjusted, as indicated by the arrow 25.

In this manner, bowling pins of various lengths may be readily accommodated by the machine and the dressing operation of the lateral surface of the pin is performed by simply applying sandpaper, or the like, to the pins, while they are being rotated by means of the face plate 15.

When the lateral surface of the bowling pin has been dressed, the base surface 26 thereof may be subjected to a similar treatment, this being achieved by removing the pin from its position between the tail stock and the face plate and placing the pin in a holder designated generally by the reference character 27.

This holder is in the form of a unit separate from the machine itself and consists of a pair of spaced parallel end pieces 28, rigidly connected together by means of a pair of lateral members 29 and a base member 30. The configuration of the members 29, 30 will be clearly apparent from the accompanying drawings, and it will be noted that the end pieces 28 are formed with suitable recesses so that the holder 27, as a whole, constitutes what may be referred to as a cradle for the bowling pin.

A guide bar 31 is secured to the bed by means of suitable screws 32, the bar 31 extending in parallel to the common longitudinal axis of the tail stock 22 and of the face plate 15.

The face portion of the plate 15 surrounding the recess 17 is provided with a replaceable sanding disc 33 and accordingly, the dressing of the base surface 26 may be effectively performed by simply positioning the pin 19 in the cradle or holder 27 and sliding the holder along the bed 11 so that the surface 26 engages with the sanding

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disc 33. It will be noted in this connection that since the side edges 34 of the cradle end pieces 28 are in engagement with the bar 31, the latter will function as a guide for the cradle, whereby the dressed base surface will be disposed at right angles to the longitudinal axis of the bowling pin. In this manner, the accuracy of the dressing operation is assured.

Since the holder or cradle 27 conforms substantially to the contour of the bowling pin, it should be understood that separate holders or cradles are to be provided in order to accommodate both, the so-called candle pins as well as duck pins. However, the remaining components of the machine may be effectively employed in association with pins of both types, and attention is again directed to the fact that the dressing of the lateral surface as well as the base surface of the pin is performed by the same machine and that in such manner, that the dressed base surface is disposed in a plane perpendicular or at right angle to the longitudinal axis of the pin.

It is believed that the advantages and use of the invention will be understood from the foregoing disclosure and accordingly, any further description thereof at this point is considered unnecessary.

While in the foregoing there has been shown and described the preferred embodiment of this

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invention it is to be understood that minor changes in the details of construction, combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as claimed.

What we claim as our invention is:

In a dressing machine for bowling pins, the combination of an elongated bed having a flat upper surface, a rotatable abrading disc adjacent one end of said bed, a guide bar provided at one longitudinal edge of said bed and extending perpendicularly to the plane of said disc, and a bowling pin receiving cradle slidably and removably resting on said bed, said cradle including lateral extensions engageable with said bar to guide said cradle toward said disc.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,576,448	Mudra	Mar. 9, 1926
1,616,909	Lorenz et al.	Feb. 8, 1927
2,205,541	Pizzotti	June 25, 1940