This invention consists in an improved mechanically driven machine for mixing, kneading and mincing, and is divided out of my U.S. patent application No. 159,418, now Patent No. 2,594,936, which is of the kind comprising a mechanically driven vertical shaft adapted to engage with a mixing or kneading bowl and a mincer, a pillar rising vertically from the base of the machine, downwardly projecting supporting feet on the underside of the base, a swinging arm over the said bowl, and a depending dolly which coacts with the internal wall of the bowl to effect the kneading or mixing, while the machine is adapted to be swung through 90° to rest on lateral feet on the base and pillar to bring the driving shaft into the horizontal for carrying out mincing.

The object of the present invention is to provide an improved form of foot on the pillar so that when the machine is to be used as a mincer the action of bringing the foot into its operative position causes the swinging arm to be swung into a substantially horizontal position out of the way of the operator.

The machine according to the invention has its swinging arm rigid with a sleeve which passes over the pillar, and is characterised in that a supporting foot projects laterally from the said sleeve on a radius from the axis of the pillar substantially at right angles to that of the swinging arm, said sleeve having formed thereon a circumferential slot, a bowl supporting pin projecting radially from said pillar through said slot and at right angles to the rear edge of said base, one end of said slot being adapted to abut against said pin when said supporting foot is in the same diametrical plane as said pin, and means for coaxially locking the sleeve to the pillar.

In order to ensure that the foot takes up the correct position, the sleeve is slotted circumferentially to receive a stop projecting from the pillar, and resilient means are adapted to hold the swinging arm with the one end of the slot pressing against the abutment when the foot is in its operative position.

The invention will now be described by way of example with reference to the accompanying drawings.

In the said drawings:
Fig. 1 is a side elevation of the machine in the mincing position, and with a mincer attached.

Fig. 2 is a front elevation of Fig. 1.
Fig. 3 is a side elevation of the machine in the mixing position.

Referring more particularly to the drawings, the machine as shown in my British Letters Patent No. 682,974 comprises a hollow rectangular base I having an upstanding rear pillar 2 which is in a plane offset from the axial plane of the mixing receptacle driving spindle hereinafter referred to. An electric motor (not shown) is housed in the base I and drives a spindle (not shown) with which a boss (not shown) on the bottom of a cylindrical mixing receptacle 3 (Fig. 3) or alternatively the spindle of a rotary mincer 4 can be engaged. A vertical sleeve 5 carrying a beaded arm 6 is pivotally mounted on the rear pillar 2, and, when the machine is used for mixing or kneading and its receptacle 3 is applied to the driving socket, a dolly (not shown) is adapted to be suspended from the said arm by means of a spindle 8 so as to engage the internal periphery of the bowl and be revolved thereby, and a scraper is similarly adapted to be suspended from a second arm pivoted in a bearing 9b at one side of the sleeve 5. The suspension of the dolly and scraper is not shown as it is not material to the present invention.

A deep flanged cylindrical bowl 7 formed with a central handle or boss 10 which projects from either side of the conical bottom 11 is adapted to be inverted to fit as a lid over the mixer receptacle the said boss being bored out to engage a pin 12 projecting through a circumferential slot 13 in the sleeve 5, from the front face of the rear pillar 2 of the machine a little in front of the mincer discharge orifice when the mincer is fitted.

The sleeve 5 and the end of the hollow base are fitted with rubber supporting feet 9 for use when the machine is used as a mincer. In the mixing position the machine rests on feet 10 at the corners of the base 1.

When the machine is to be used for mincing, the receptacle 3 is disengaged from the driving spindle, and the pin 6 from the bowl 7, while the arm 6a is released by slackening off a locking nut 11 coaxial with the pillar and swung round until the end of the slot 5c abuts against the pin 8, in which position the arm and pillar are locked by means of the locking nuts 11, while the foot 9 on the sleeve has its outer end in the same plane
as that of the feet 8a, which plane is at right angles to that of the feet 10. In this position of the foot 9, the arm 5a lies substantially horizontal and is thus well out of the way of the sphere of operations.

What I claim is:

In a mixing device having a base and a pillar upstanding from one end thereof, and a mixing receptacle on the opposite end thereof, said pillar having a spindle and a rotatable sleeve, said sleeve having an arm extending laterally therefrom, said sleeve having intermediate its ends a circumferential slot, and said spindle having a pin extending laterally therefrom and through said slot toward said mixing receptacle, whereby when the mixing device is turned 90° to rest upon one end of said base and said pillar, and said arm is turned 90°, a mincer may be substituted for said mixing receptacle and a bowl mounted on said pin.

References Cited in the file of this patent

UNITED STATES PATENTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Name</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,502,564</td>
<td>Hansson</td>
<td>Apr. 4, 1950</td>
</tr>
</tbody>
</table>

FOREIGN PATENTS

<table>
<thead>
<tr>
<th>Number</th>
<th>Country</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>53,175</td>
<td>France</td>
<td>Dec. 4, 1944</td>
</tr>
</tbody>
</table>

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