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(54) **DUAL ECCENTRIC SHAFT DRIVING MECHANISM**

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(57) **ABSTRACT**

A dual eccentric shaft driving mechanism comprises a motor, a first eccentric shaft, and a second eccentric shaft. The first eccentric shaft has a first eccentric portion. The second eccentric shaft has a second eccentric portion connected to the first eccentric shaft. The motor is connected to the first eccentric shaft for driving the first and the second eccentric shaft to rotate. Wherein, the first and the second eccentric shaft are connected to have a same rotating direction. A phase difference between the first and the second eccentric portion is maintained at 180 degrees. Compared to the prior art, a second centrifugal force generated by the rotation of the second eccentric shaft is balanced by a first centrifugal force generated by the rotation of the first eccentric shaft in the present invention. Therefore, the vibration generated in the operation of the present invention is drastically reduced.

6 Claims, 14 Drawing Sheets

