

TITLE OF INVENTION: VECTOR VIBRATION FEEDER

ABSTRACT

A vector vibration feeder is provided, including: an inner vibration body and an outer vibration body. A plurality of elastic beams are connected between the inner vibration body and the outer vibration body. The plurality of elastic beams are radially distributed around a central axis of the inner vibration body. The plurality of elastic beams are distributed in a spacing manner in a direction of the central axis. The elastic beams are configured to: allow the inner vibration body and the outer vibration body to do a relative translation motion along the central axis and a relative rotation motion around the central axis, and jointly suppress a relative radial motion or pitch motion between the inner vibration body and the outer vibration body. The relative radial motion or pitch motion of the inner vibration body and the outer vibration body can be suppressed, thus improving stability of parts conveying.

FIG. 1