

VIBRATORY PARTS-FEEDING APPARATUS

Abstract :

A vibratory parts-feeding apparatus comprises a rotational vibrator 11 including a vibrational plate 16 vibrating around an axis line 10x, and a feed-vibrating body 12 disposed on said vibrational plate 16 and equipped with a spiral feeding path 12w around said axis line 10x, wherein a bottom face 12d which is disposed in contact with a surface 16s of said vibrational plate 16 is formed on the outside of a bottom 12c of said feed-vibrating body 12, and an outer periphery portion 12b of said feed-vibrating body 12 is fixed to an outer periphery portion of said vibrational plate 16 in several angular positions around said axis line 10x by clamping structures on the outside of said bottom face 12d in said feed-vibrating body 12, and each of clamping structures has a clamp member 18 which is connected to one outer periphery portion of either said vibrational plate 16 or said feed-vibrating body 12 and which includes a clamp face 18d, and has an inclined engaging face 12f formed on the other outer periphery portion and axially engaged with said clamp face 18d of said clamp member 18, and said inclined engaging face 12f of said clamping structures are inclined relative to said axis line 10x direction, and face the opposite side of said one outer periphery portion, and are constructed to face in a different direction from each other on a plane orthogonal to said axis line 10x among at least two of said clamping structures, and said clamp faces 18d of said clamp members 18 are pressed in contact with said inclined engaging faces 12f so that said feed-vibrating body 12 is fixed to said vibrational plate 16.

Figure : 3