

VIBRATORY TRANSPORTING APPARATUS

[Abstract]

[Problem to be Solved by the Invention]

To provide a vibrating carriage system free of adjusting motions between vibrating bodies and capable of realizing an efficient carriage aspect.

[Solution Means]

The present invention is a vibrating carriage system which is provided with supporting bodies (1, 1', 7) and carriers (2, 2') arranged over the supporting bodies via vibrating bodies (3, 4, 5, 6), and this vibrating carriage system is constituted in such a manner that the vibrating body includes a piezoelectric body (3), the upper end of which is connected to a supporting site (1a') of the supporting body to extend downward from the supporting site, a first resilient body (4) connected to the lower end of the piezoelectric body to extend upward and coupled with the carrier at a first position (2a'), and a second resilient body (5) coupled between the carriers and the supporting bodies at second positions (2b', 1b') forward from the first position in the carrying direction, and a coupling portion (6) of the piezoelectric body with the first resilient body gives a free end.

[Selected Drawing] Fig. 1