Title (en)
Electromagnetic vibrating mechanism

Title (de)
Elektromagnetischer Vibrationsmechanismus

Title (fr)
Mécanisme de vibration électromagnétique

Publication
EP 2143409 A1 20100113 (EN)

Application
EP 08012438 A 20080710

Priority
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Abstract (en)
An electromagnetic vibrating mechanism having a pair of electromagnetic sensors (30) disposed at both sides of a vibrating plate (20). Each of the electromagnetic sensors consists of one horseshoe-shaped solenoid (31) and two permanent magnets (40) disposed at the rim of the vibrating plate. The horseshoe-shaped solenoid (31) is provided with a first coil (32) and a second coil (33) at both ends thereof. In this way, an electromagnetic output having different polarity is achieved when the current is applied. Furthermore, the polarity can be duly changed by means of input of electric current in different directions. Besides, each of the permanent magnets (40) includes an upper magnet (41) and a lower magnet (42). The magnets are positioned in such a manner that the polarities thereof are different in lateral direction. Meanwhile, the horseshoe-shaped solenoid (31) is employed to create an up-and-down vibration.

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Citation (applicant)
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