

ABSTRACT

A small motor for use in an information-communication apparatus, an audio-visual apparatus or the like, and a motor for use in a portable pager and a portable telephone or the like for generating vibrations to be transmitted to a human body, the motors being efficient, small and thin in size, and having a high degree of freedom when mounted on an apparatus. To realize the motor as described above, K pieces of (K indicating any integer greater than one) magnetic units (4a, 4b, 4c) having N and S poles magnetized alternately are mounted on a rotor in a circumferential direction, and K magnetic units are axially stacked in K stages and integrally retained on a shaft (6), and this rotor is rotatably supported on a pair of bearings (9a, 9b). Cores (1a, 1b, 1c) each have a salient pole (7a, 7b, 7c) wound around with coils (3a, 3b, 3c) in K stages so as to correspond to each of the magnetic units. The magnetized position of the N and S poles of the magnetic unit at each stage deviates relative to one another in a circumferential direction so as to set the phase of induced voltage generated on the salient pole wound around with the coil in each stage to a phase suitable for rotating a magnet unit corresponding to a coil in that stage.

This Sheet Has Been Replaced

