

Title (en)
EXPOSURE DEVICE HAVING A PLANAR MOTOR

Title (de)
BELICHTUNGSVORRICHTUNG MIT PLANAREN MOTOR

Title (fr)
DIAPHRAGME OPTIQUE A MOTEUR PLAN

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Abstract (en)
[origin: WO0003301A2] Disclosed is a planar motor device capable of effectively restraining thermal influence on the environment. When an electric current is supplied to armature coils (38) opposed to the magnet of a movable member (51), the movable member (51) is driven along a movement surface (21a) by electromagnetic force. When the movable member (51) is continued to be driven in a certain direction, electric current is supplied to the armature coils (38) opposed to the magnet for each movement position of the movable member (51), whereby the armature coils (38) supplied with electric current generate heat. The armature coils (38) are accommodated in a vacuum chamber (41) in a base (21), and are arranged so as to be in contact with a stator yoke (43), with a predetermined gap being defined between them and a ceramic plate (36) forming the vacuum chamber (41). Thus, the heat transmission from the armature coils (38) to the movement surface (21a) side is effected substantially by radiation alone, so that it is possible to effectively restrain thermal influence on the environment.

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