

ELECTROMECHANICAL TRANSDUCER

ABSTRACT

An electromechanical transducer includes: a structural portion configured such that two pairs of magnets magnetized in opposite directions, a yoke configured to guide magnetic fluxes from the magnets, and a coil configured to receive a supplied electric signal are located integrally; an armature having an inner portion penetrating an internal space of the structural portion and outer portions protruding from the inner portion toward both sides in a first direction, forming, together with the structural portion, a magnetic circuit through regions of the inner portion facing the two pairs of magnets, and configured to displace in a second direction perpendicular to the first direction by magnetic force of the magnetic circuit; and a pair of elastic members each located on both sides of the armature in the second direction, and configured to provide, to the armature, restoring force according to relative displacement of the armature corresponding to the structural portion.

[FIG. 2]