

Title (en)
ELECTROMAGNETIC ADJUSTING DEVICE

Title (de)
ELEKTROMAGNETISCHE STELLVORRICHTUNG

Title (fr)
DISPOSITIF DE RÉGLAGE ÉLECTROMAGNÉTIQUE

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Application
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Abstract (en)
[origin: WO2013164309A1] The invention relates to an electromagnetic adjusting device comprising at least two armature units, each of which has an armature body (10, 14) and permanent magnet means (12, 16) thereon, each of which can be moved relative to a respective stationary core portion (18, 22) and a coil unit (20, 24) paired with said core portions in response to an energizing process of said coil unit, and each of which is provided in order to interact with a respective adjusting partner. A magnetic current conducting unit (28, 30; 54, 56) is provided so as to extend in a direction of movement of the armature units adjacently to the two core portions and armature units together. The current conducting unit is designed and dimensioned such that a permanent magnetic flux (34, 36) of the two permanent magnet means flows through the current conducting unit in a non-energized state of the coil unit, and in an energized state of the coil unit (42), said state being activated in order to move one of the armature units, a coil magnetic flux (42) in the current conducting unit, said coil magnetic flux being generated as a result of the energizing process, at least partially displaces the permanent magnetic flux of the permanent magnet means of the anchor unit which is not to be moved as a result of the energizing process out of the current conducting unit. The two core portions are connected (26) to each other so as to conduct a magnetic flux such that in the energized state, the permanent magnetic flux is displaced to the core portion of the core unit to be moved (a) as a result of the energizing process.

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