

Abstract

Magnetic actuator for controlling a magnetic force on a load, including a first, second, and third magnetic element, the first, second and third element having a first, second, and third position respectively,

5 the first and the second element being adjacent to each other separated by a first gap in a first direction,

the second and the third element being adjacent to each other separated by a second gap in a second direction,

the magnetic force being caused by a magnetic interaction of the first, second and third

10 magnetic elements at their respective first, second and third position,

wherein the magnetic actuator includes a displacer attached to at least two of the first, second and third elements, the displacer being arranged for changing the magnetic interaction of the first, second and third elements by relatively displacing at least one of the first, second and third elements from it's respective position.

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[Figure 2]