METHOd AND SYSTEM FOR TRANSPORTATION USING A MAGNETIC BEARING STRUCTURE

A method and system for transportation using a magnetic bearing structure is disclosed. In one aspect, an apparatus for carrying a load comprises a source of magnetic flux and a controller configured to control the position of the source of magnetic flux relative to a magnetizable structure. The source of magnetic flux comprises a first upper portion and a first lower portion of opposite polarities. The first portions are spaced apart horizontally from a first side of the magnetizable structure. The source of magnetic flux further comprises a second upper portion and a second lower portion of opposite polarities. The second portions are spaced apart horizontally from a second side of the magnetizable structure. The second side is opposite the first side. The first and second upper portions are magnetically attracted to an upper portion of the magnetizable structure and the first and second lower portions are magnetically attracted to a lower portion of the magnetizable structure.