

ABSTRACT**MAGNETIC LEVITATION SYSTEM FOR DOORS AND WINDOWS**

A magnetic levitation system for a sliding door or window (1a, 1b, 2) comprises at least one movable module (4) for the lower part of the sliding door or window (1a, 1b, 2), comprising one or more permanent magnets; multiple fixed modules (5) for the lower part of the rim of the sliding door or window (1a, 1b, 2), with one or more electromagnets to produce a variable magnetic field repelling the magnetic field of the said magnets on the movable module. The advantages are that of eliminating attrition, mechanical wear and noise associated with the sliding movement, a better air-tightness and water-tightness, as well as thermal and acoustic insulation when the system is deactivated, allowing the door or window to be electromagnetically locked or blocked, thus increasing security, and also a simpler and less costly operation and assembly, owing to the fact that it is a modular system.

Figure 1A