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(54) Title: SWING APPARATUS WITH MAGNETIC DRIVE AND CONTROL

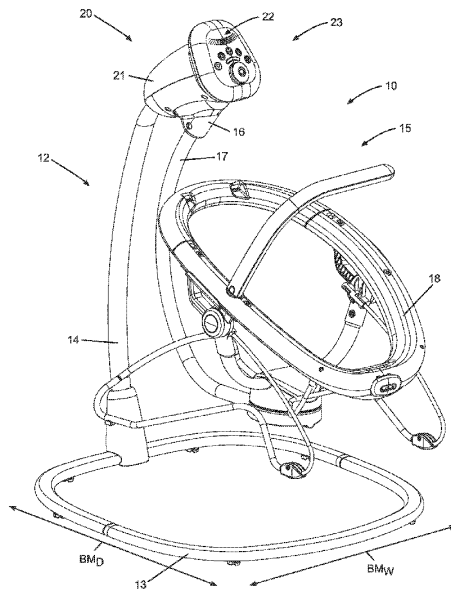


FIG. 1

(57) Abstract: A swing apparatus includes an arm assembly including a seat, and a frame assembly coupled to the arm assembly. The frame assembly defines a pivot axis about which the arm assembly rotates during operation of the swing apparatus. The swing apparatus also includes an electromagnet disposed on the frame assembly, and a plurality of permanent magnets disposed on the arm assembly and positioned to define an arc centered on the pivot axis. The electromagnet has an angular offset about the pivot axis relative to the plurality of permanent magnets positioned along the arc when the swing apparatus is in a neutral position.

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