

ABSTRACT**MAGNETIC OMNI-WHEEL**

A multidirectional wheel for traversing a surface that includes at least one hub is provided. The hub defines a first axial direction of rotation. A plurality of rollers are disposed
5 around an outer periphery of the hub. The rollers are mounted for rotation in a second axial direction that is at an angle to the first axial direction. The wheel includes at least one magnet that is mounted to the hub. The hub is made of a magnetically inducible material that concentrates the flux of the at least one magnet toward the surface being traversed.

Figure 1