

ELECTROMAGNETIC ACTUATION SYSTEM

Abstract

A carriage, utilizing an electromagnetic actuation system, includes a shaft, a first rotating member, and a first contacting member. The first rotating member is connected to the shaft and configured to rotate the shaft when passing through a first magnetic field. The first contacting member is connected to the shaft and configured to engage a second contacting member to transfer rotational energy from the shaft to the second contacting member. The second contacting member transfers motion to a carrier via another shaft and a wheel to sort items on a carrier.

Figure 14A