

MAGNETIC LATCH ASSEMBLY

ABSTRACT OF THE DISCLOSURE

A magnetic latch assembly includes a latch member movably mounted to a first object such as a door, and a
5 retainer arranged in a second, opposing object such as a door frame. The latch member includes a latch arm, a hook formed on the distal end of the latch arm, and a first magnet mounted in the hook. The retainer includes a housing with a cavity and a second magnet. The cavity
10 includes a first horizontal passage and a second vertical passage communicated with the horizontal passage. The second magnet has a magnetic pole of opposite polarity from the magnetic pole of the first magnet. When the first and second objects are relatively moved toward each other, the
15 latch arm is moved into the first passage of the cavity. When the latch head is completely received in the first passage, the two magnets are operatively associated to cause the latch member to be moved from the horizontal passage to the vertical passage and urge the latch member
20 or head into latching engagement with one end of the housing which serves as a retainer.

Figure 1