



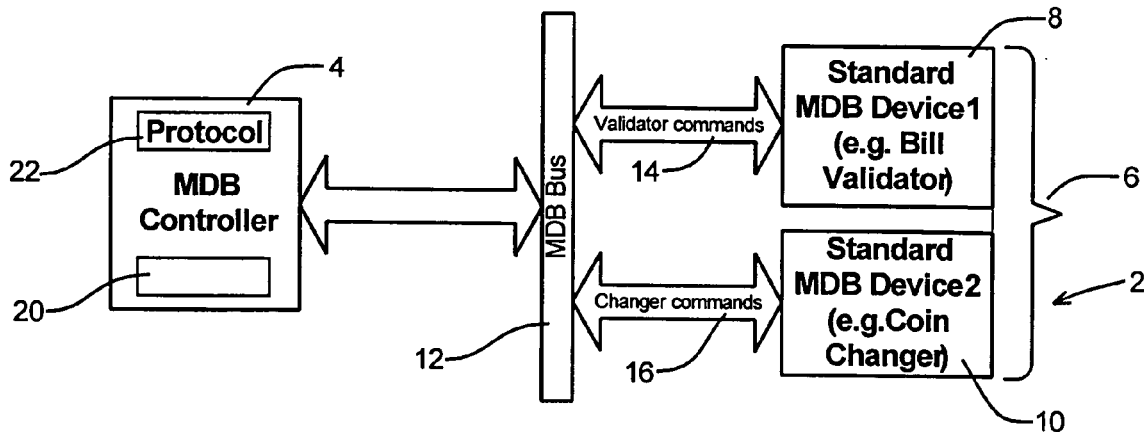
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(19) **United States**(12) **Patent Application Publication** (10) **Pub. No.: US 2007/0119680 A1**
(43) **Pub. Date: May 31, 2007**(54) **BANKNOTE RECYCLER PROTOCOL
ADAPTER****Publication Classification**(51) **Int. Cl.**
G07F 7/04 (2006.01)
(52) **U.S. Cl.** **194/206**(76) Inventors: **Leon Saltsov**, Thornhill (CA); **Yuri
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Toronto, ON M5H 2L7 (CA)(57) **ABSTRACT**

Vending or gaming machines typically use a communication protocol such as a MDB (multi drop bus) communication protocol to allow effective communication between a host controller and a series of peripheral devices including bill validators and coin changers. An intelligent adapter is provided to allow communication with a banknote validator and recycler to allow banknotes to be provided as change without updating the protocol of the vending or gaming machine. The intelligent adapter acts as an intermediary whereby the peripheral connected thereto operates in their normal manner and the host controller operates in a manner supported by its protocol. The intelligent adaptor is used to provide the recycling banknote function as an additional capability of the coin changer and appropriately readdresses or coordinates the signals to or from the peripheral devices to the host controller.

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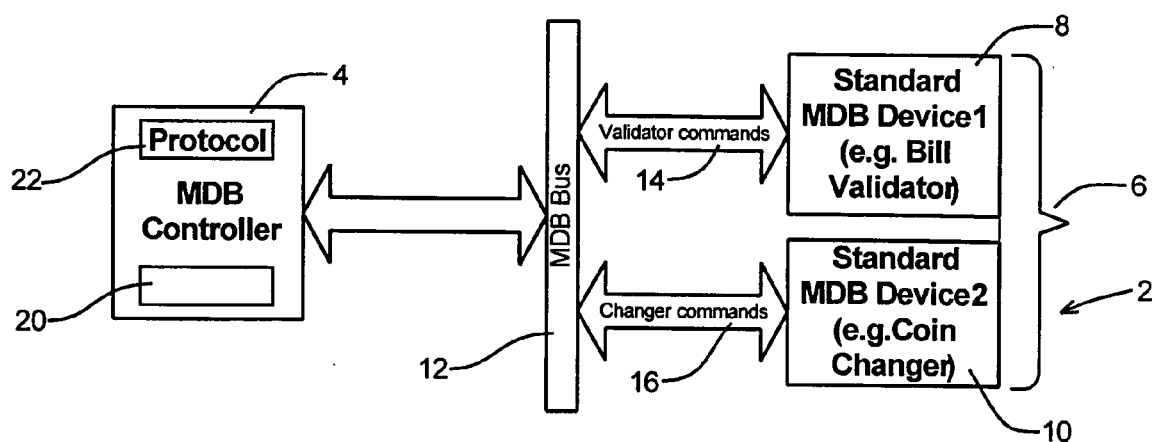


FIGURE 1

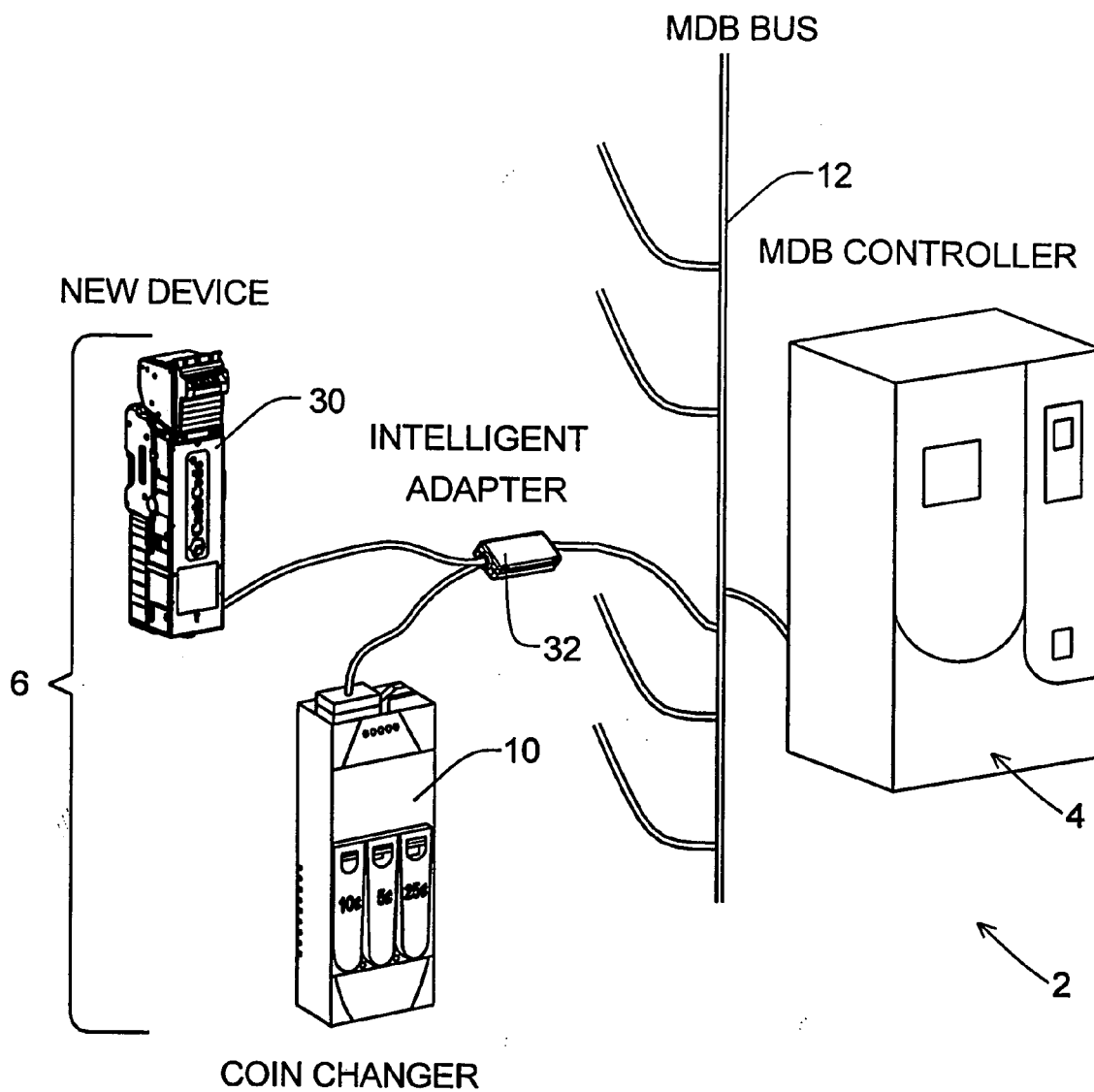


FIGURE 2

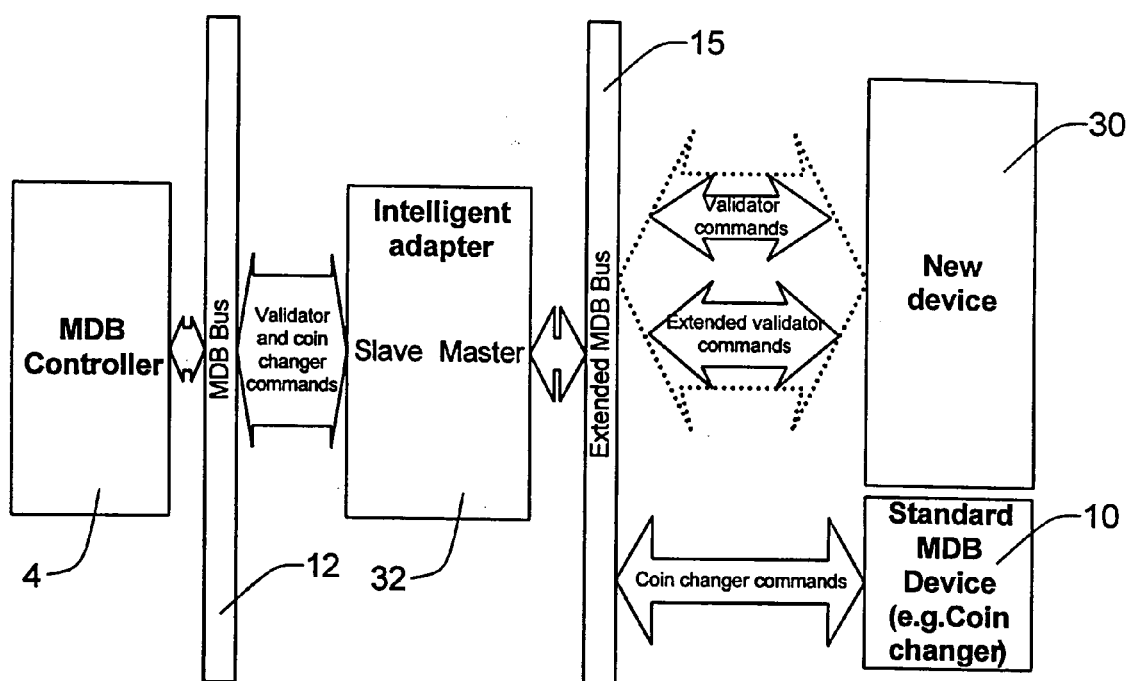


FIGURE 3

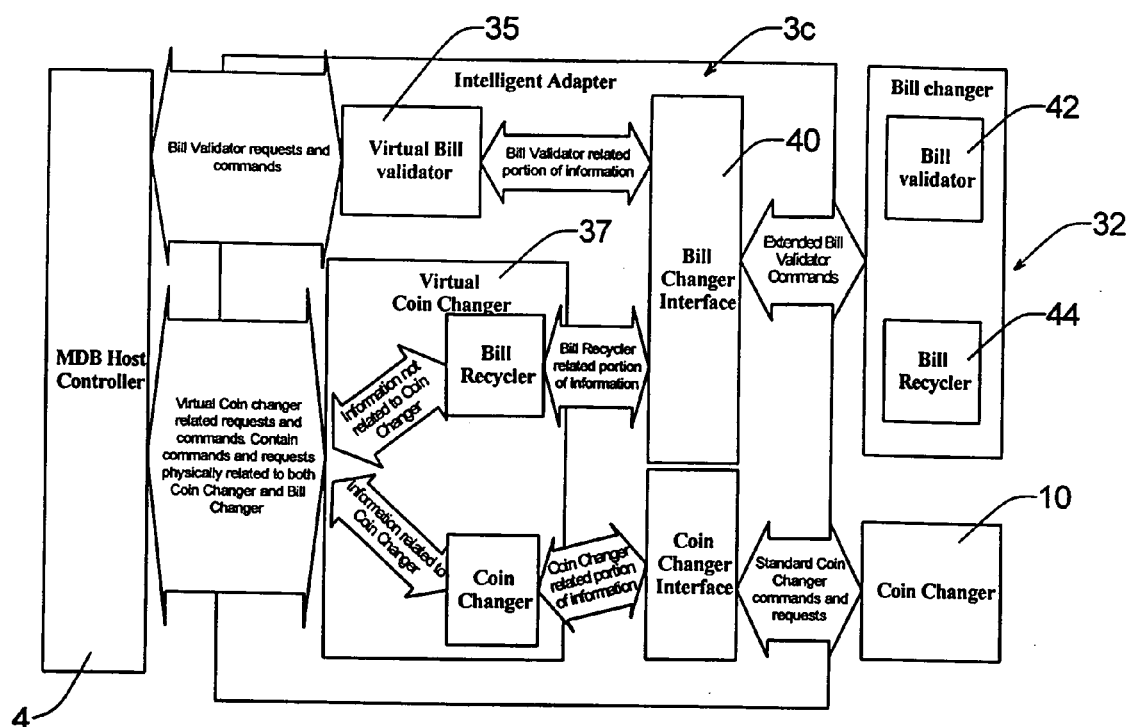


FIGURE 4

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