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(54) Title: AN ACCESS CONTROL DEVICE AND METHODS OF USING SAME

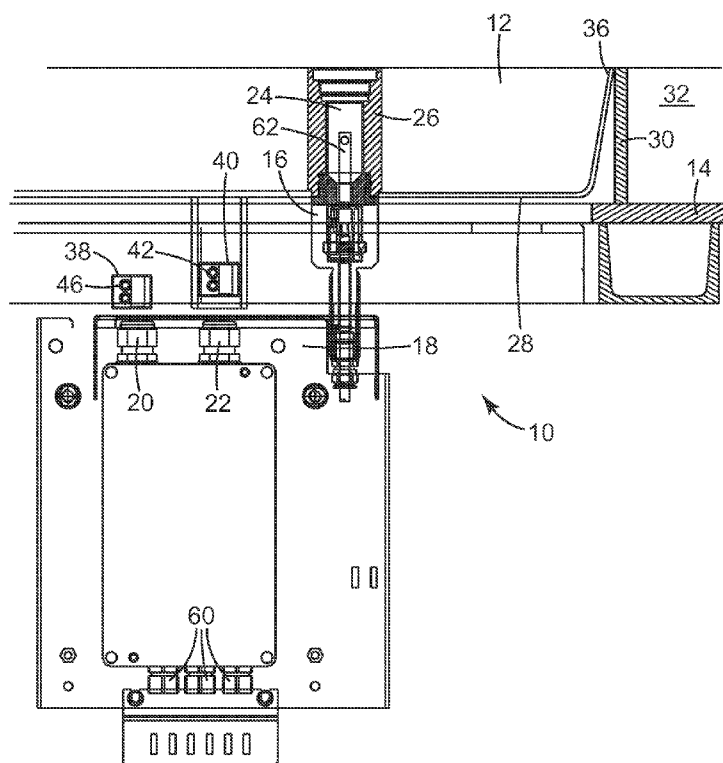


FIG. 1

(57) Abstract: An access control device (10) for a manhole cover having a lid (12) and a frame (14) adapted to accommodate the lid (12) is attachable to at least one of the lid (12) and the frame (14) in the area covered by the lid (12) and has an antenna (16) adapted to receive external signals, and a connection to a remote security control unit. Also provided is a method of using an access control device with a sender, such as a transponder, to emit signals received by the antenna. Also provided is a method of providing a manhole cover having a lid and a frame adapted to accommodate the lid with an access control device having an antenna adapted to receive external signals; attaching the access control device to at least one of the lid and the frame in an area covered by the lid; positioning the antenna proximate to the lid; and connecting the access control device to a remote security control unit.



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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

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Korean utility models and applications for utility models since 1975

Japanese utility models and applications for utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS (KIPO internal) & keywords: "MANHOLE", "ACCESS", "CONTROL"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KR 20-0393387 Y1 (KIM) 18 AUG. 2005 SEE THE WHOLE DOCUMENT.	1-24
Y	KR 20-0360412 Y1 (E.M.W. ANTENNA CORP.) 30 AUG. 2004 SEE THE ABSTRACT AND FIGURE 1.	1-24
A	KR 10-2000-0071438 A (HANEDA HUME PIPE CORP.) 25 NOV. 2000 SEE THE WHOLE DOCUMENT.	1-24



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