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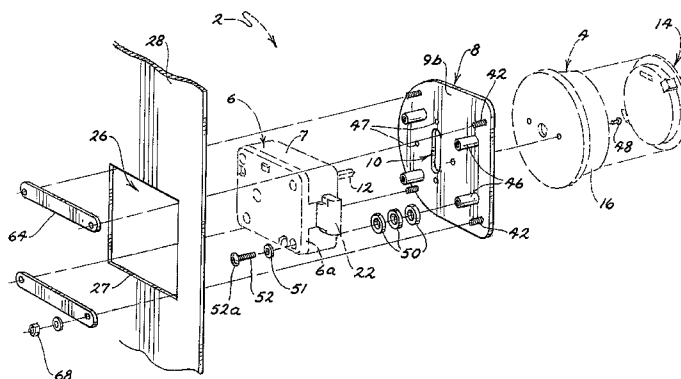
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(54) Title: LOCK ASSEMBLY HAVING SECURE ENGAGEMENT PLATE



(57) Abstract: A lock assembly (2) for attachment to an enclosure door (28). In preferred embodiments, the enclosure door (28) has a lock assembly receiving opening (26) specifically created to receive the lock assembly (2). The lock assembly (2) includes a lock case assembly (6) having a bolt (22) that can be moved between at least two positions; a lock actuating assembly (4) interconnected with the lock case assembly (6) such that the lock actuating assembly (4) can actuate a change in the position of the bolt (22) from one position to another; and a mounting plate (8) having an interior side and an exterior side. The lock actuating assembly (4) is preferably secured to the mounting plate (8) on the exterior side and the lock case assembly (6) is preferably secured to the mounting plate (8) on the interior side. The lock assembly (2) itself can be secured within the lock assembly receiving opening (26) of the enclosure door (28) by an interior mounting plate securing bracket (64), preferably two such brackets, which are secured to the interior side of the mounting plate (8) and effectively grip an edge or preferably two edges of the enclosure door (28) proximate the lock receiving opening (26) so that the lock assembly (2) can be secured to the enclosure door (28). In alternate embodiments, the present invention provides a mounting plate (8), an enclosure door (28) including a lock assembly (2) and a method of securing a lock assembly (2) to an enclosure door (28).



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/30795

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : E05B 49/00
 US CL : 70/278.1

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

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 70/278.1,466,461,443,451,417,370;292/dig.53,dig.54,dig.64

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,787,741 A (SHEN) 04 August 1998 (04.08.1998), see entire document.	1,3,4,6,8,10,11 and 13
A	US 4,688,409 A (OLIVER et al) 25 August 1987 (25.08.1987), see entire document.	1-20
A	US 5,267,461 A (EIZEN) 07 December 1993 (07.12.1993), see entire document.	1-20
A	US 4,708,007 A (STOIA) 24 November 1987 (24.11.1987), see entire document.	1-20
A	US 4,074,552 A (SMITH) 21 February 1978 (21.02.1978), see entire document.	1-20
A	US 4,782,677 A (O'GARA) 08 November 1988 (08.11.1988), see entire document.	1-20

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

The technical features mentioned in the abstract do not include a reference sign between parentheses (PCT Rule 8.1(d)).

NEW ABSTRACT

A lock assembly (2) for attachment to an enclosure door (28). In preferred embodiments, the enclosure door (28) has a lock assembly receiving opening (26) specifically created to receive the lock assembly (2). The lock assembly (2) includes a lock case assembly (6) having a bolt (22) that can be moved between the at least two positions; a lock actuating assembly (4) interconnected with the lock case assembly (6) such that the lock actuating assembly (4) can actuate a change in the position of the bolt (22) from one position to another; and a mounting plate (8) having an interior side and an exterior side. The lock actuating assembly (4) is preferably secured to the mounting plate (8) on the exterior side and the lock case assembly (6) is preferably secured to the mounting plate (8) on the interior side. The lock assembly (2) itself can be secured within the lock assembly receiving opening (26) of the enclosure door (28) by an interior mounting plate securing bracket (64), preferably two such brackets, which are secured to the interior side of the mounting plate (8) and effectively grip an edge or preferably two edges of the enclosure door (28) proximate the lock receiving opening (26) so that the lock assembly (2) can be secured to the enclosure door (28). In alternate embodiments, the present invention provides a mounting plate (8), an enclosure door (28) including a lock assembly (2) and a method of securing a lock assembly (2) to an enclosure door (28).