

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) Publication number:

0 426 402 A3

(12)

EUROPEAN PATENT APPLICATION(21) Application number: **90311810.7**

(51) Int. Cl.⁵: **E06B 3/72**, E06B 5/10,
E06B 5/16, E06B 7/30,
E05B 63/16, E05B 59/00

(22) Date of filing: **29.10.90**(30) Priority: **31.10.89 GB 8924431**

(43) Date of publication of application:
08.05.91 Bulletin 91/19

(84) Designated Contracting States:
AT BE CH DE DK ES FR GR IT LI LU NL SE

(88) Date of deferred publication of the search report:
11.09.91 Bulletin 91/37

(71) Applicant: **MANCHESTER CITY COUNCIL**
P.O. Box 532 Town Hall
Manchester M60 2LA(GB)

(72) Inventor: **Southern, Harold**

41 Ruskin Road
Prestwich Manchester, M25 8QN(GB)
Inventor: **Cooper, Eric**
22 Kiln Lane
Hadfield, Hyde Cheshire, SK14 7AV(GB)
Inventor: **Byers, Thomas**
7 Newton Road
Urmston Manchester(GB)
Inventor: **McDonald, Lawrence**
5 Blueberry Road
Bowden Cheshire(GB)

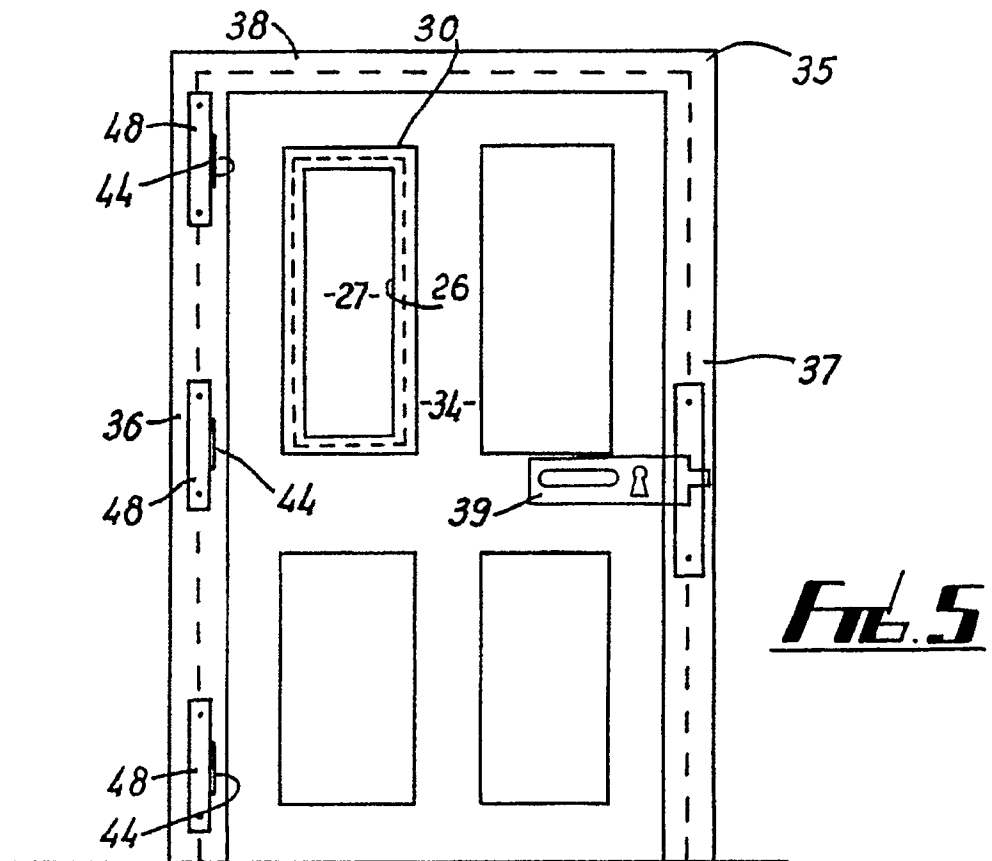
(74) Representative: **Whalley, Kevin et al**
Wilson Gunn Ellis & Co. 41-51 Royal
Exchange Cross Street
Manchester M2 7BD(GB)

(54) **Security door.**

(57) A security door is described which has several inventive features. Firstly, the door (34) is composed of a core which includes at least lateral stiles (16, 17) and transverse rail members (18, 19, 14) with a central core (11), the core (11) being sandwiched between two facing layers (12), for example of plywood. As a second feature, one or more glazed openings are formed in the door, the or each opening is formed by cutting an aperture (24) in the door (34), forming a rebate (20) around the outer face of the door (34) in register with said aperture (24), placing a sheet of glazing material (27) with its edge portions within the rebate (20) and securing the glazing sheet using fasteners (29) preferably rivets or non-return screws, the peripheral portion of the glazing sheet (27) and the rebate (20) being covered by a planted moulding (30). Further, in order to strengthen connections between a door (30) and a door frame (35), potential areas of weakness such as hinges (44) and lock (39) are supplemented by pairs of reinforcing members (41, 43, 47, 48) one of which is on the inside of the door frame (36), one of which

is on the outer side of the door frame (36), the two reinforcing members (41, 43, 47) being secured together by fasteners (49), these structures serving to spread any bursting force over a larger area of the frame (36). In connection with this latter provision, a selected hinge of the door, for example an uppermost hinge, can be provided with said plates but unconnected so as to provide a weak point to allow entry by police or fire officers in an emergency. As a further aid to this possibility the door frame at that location, or over its entire length can be made from a stile member (56) which is composed of two parts (59, 60) which are adhered or otherwise secured together to provide a part line of weakness. There is also described a fastener arrangement for a security door which includes internal and external handles, a latch bolt and a locking bolt, the arrangement being that operation of the handle on the interior of the lock can cause movement of both the latch bolt and the locking bolt from their closed to their opened conditions. This allows rapid egress from a door fitted with such a fastener assembly.

EP 0 426 402 A3





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 90 31 1810

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
X	GB-A- 370 173 (CENTRAL JOINERY CO.) * Page 2, lines 28-130; figures 1-4 *	1,2	E 06 B 3/72
Y	---	3,4,5	E 06 B 5/10
X	GB-A-2 141 164 (HALPIN) * Page 1, lines 5-65; figures 1-3 *	1,2	E 06 B 5/16
A	---	3	E 06 B 7/30
X	US-A-2 342 490 (PRETOT) * Page 1, column 1, line 6 - page 2, column 1, line 71; figures 1-7 *	1	E 05 B 63/16
A	---	2,3	E 05 B 59/00
Y	DE-U-8 702 393 (ZIZL SPERGER) * Page 2, line 4 - page 8, line 14; figures 1-8 *	3,4,5	
A	-----	1	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			E 06 B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 05-02-1991	Examiner DEPOORTER F.
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ All claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claims:
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

x LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirement of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims 1-5: Door with a care and cover sheets.
2. Claims 6-9: Security door with a light.
3. Claims 10-16: Security door with reinforcements associated with the hinges and fastener.
4. Claim 17: Fastener assembly for a security door.
5. Claims 18-20: Security door with heat sensitive members.

- ☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☒ None of the further search fees has been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.

namely claims: 1-5