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(54) **Cogwheel lock with retention for metal frame structures**

(57) Cogwheel assembly lock with retention mechanism for metal frames, characterised by the fact that output wheel (4) engages with the cogged rack of the descending closure plate (1), the output wheel (4) operating in a hollow (6) formed in the edge of the descending closure plate (1) and because it includes handle (17) retraction functions through the descending closure plate (1), jointly with the input wheel (3), and because it has the means to automatically hold in place the cogwheel assembly in the absence of the lock's cylinder (5).

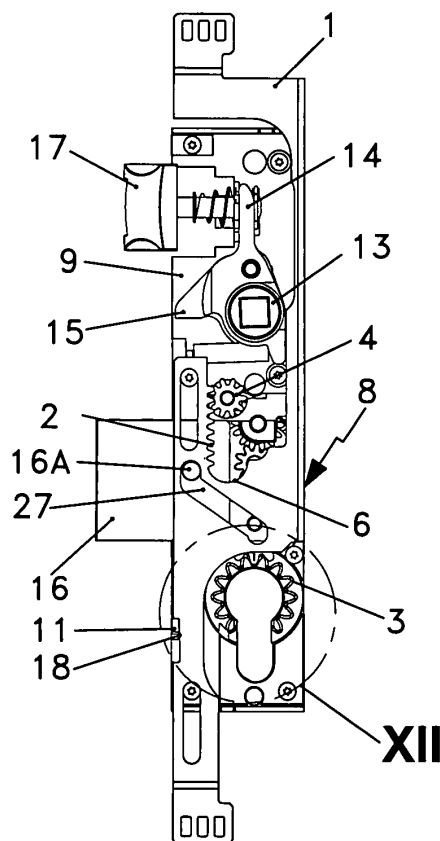


Fig.2



EUROPEAN SEARCH REPORT

Application Number
EP 07 25 1509

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	DE 38 36 694 A1 (FLIETHER KARL GMBH & CO [DE]) 3 May 1990 (1990-05-03)	1	INV. E05B9/08 E05C9/02
Y	* column 5, line 29 - column 8, line 64;	3	
A	figures 1-7 *	2	

X	DE 195 23 617 A1 (GSG BAUBESCHLAEGE GMBH ELSTERW [DE]) 16 January 1997 (1997-01-16)	1	
Y	* the whole document *	4	
A		2	

X	EP 1 020 594 A2 (FLIETHER KARL GMBH & CO [DE]) 19 July 2000 (2000-07-19)	1	
A	* the whole document *	2	

X	FR 2 469 537 A1 (GILRO [FR]) 22 May 1981 (1981-05-22)	1	TECHNICAL FIELDS SEARCHED (IPC) E05B E05C
Y	* page 6, line 24 - page 7, line 1; figures 1,2,12 *	4	

A	EP 1 033 461 A1 (FLIETHER KARL GMBH & CO [DE]) 6 September 2000 (2000-09-06)	1-2	
* the whole document *			

A	EP 0 455 944 A2 (FUHR CARL GMBH & CO [DE]) 13 November 1991 (1991-11-13)	1-2	
* the whole document *			

Y	EP 0 096 229 A1 (GRETSCH UNITAS GMBH [DE]) 21 December 1983 (1983-12-21)	3	
A	* page 12, line 18 - page 15, line 18; figures *	1	

A	DE 31 14 776 A1 (BRUMME PRESS & STANZWERK [DE]) 28 October 1982 (1982-10-28)	3	
* figures *			

A	EP 1 536 086 A1 (CISA SPA [IT]) 1 June 2005 (2005-06-01)	3	
* figures *			

The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 20 January 2010	Examiner Henkes, Roeland
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			

EPO FORM 1503 03.82 (P04C01)



Application Number

EP 07 25 1509

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

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

see sheet B

☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ 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 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 invention first mentioned in the claims, namely claims:

☐ The present supplementary 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 (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 07 25 1509

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

1. claims: 1-2, 4

A cogwheel assembly main lock with a bolt and latch and a vertically sliding plate connectable to driving rods for further upper/lower locks, operated by either a cylinder lock or a handle. The main lock defines a particular shift device, attached to the sliding plate, for operation of the latch by the cylinder lock.

A cogwheel assembly main lock with a bolt and latch and a vertically sliding plate connectable to driving rods for further upper/lower locks, operated by either a cylinder lock or a handle. The main lock defines a particular cam slot arrangement on the sliding plate for actuation of the bolt by movement of the sliding plate as well as for stable bolt end positions.

1.1. claim: 4

A cogwheel assembly main lock with a bolt and latch and a vertically sliding plate connectable to driving rods for further upper/lower locks, operated by either a cylinder lock or a handle. The main lock defines a particular cam slot arrangement on the sliding plate for actuation of the bolt by movement of the sliding plate as well as for stable bolt end positions.

2. claim: 3

A cogwheel assembly main lock with a bolt and latch and a vertically sliding plate connectable to driving rods for further upper/lower locks, operated by either a cylinder lock or a handle. The main lock defines a particular arrangement of a locking finger for holding the cogwheel assembly in place in absence of the cylinder lock mounting screw to facilitate mounting of the cylinder lock.

Please note that all inventions mentioned under item 1, although not necessarily linked by a common inventive concept, could be searched without effort justifying an additional fee.

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 07 25 1509

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
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20-01-2010

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 3836694	A1	03-05-1990	NONE
DE 19523617	A1	16-01-1997	NONE
EP 1020594	A2	19-07-2000	AT 283956 T 15-12-2004 DE 19901661 A1 27-07-2000 ES 2228307 T3 16-04-2005
FR 2469537	A1	22-05-1981	NONE
EP 1033461	A1	06-09-2000	AT 212101 T 15-02-2002 DE 19909178 A1 07-09-2000 DK 1033461 T3 06-05-2002 ES 2167296 T3 16-05-2002
EP 0455944	A2	13-11-1991	DE 4014041 A1 07-11-1991
EP 0096229	A1	21-12-1983	DE 8218024 U1 04-11-1982
DE 3114776	A1	28-10-1982	NONE
EP 1536086	A1	01-06-2005	NONE

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82