



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
01.12.2010 Bulletin 2010/48

(51) Int Cl.:
E05B 65/46 (2006.01)

(43) Date of publication A2:
29.07.2009 Bulletin 2009/31

(21) Application number: **08153674.0**

(22) Date of filing: **28.03.2008**

(84) Designated Contracting States:
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR
Designated Extension States:
AL BA MK RS

(30) Priority: **25.01.2008 CN 200810033094**

(71) Applicant: **Jiangsu Tongrun Tool Cabinet Co. Ltd.**
Changshu
Jiangsu 215500 (CN)

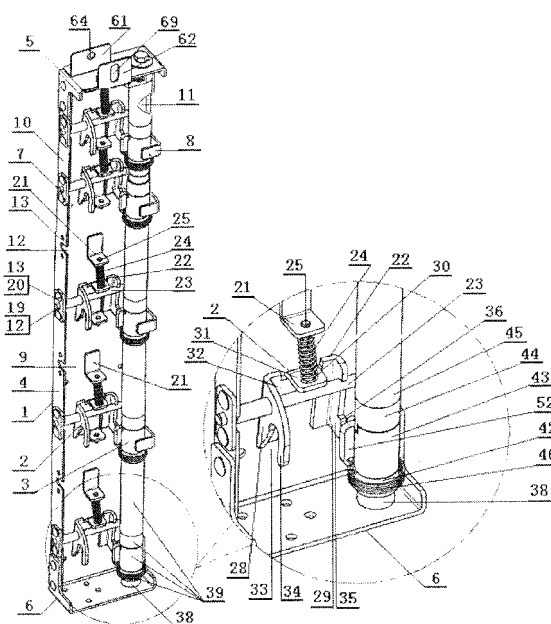
(72) Inventors:
• **Shen, Zhiqing**
215500 Changshu Jiangsu (CN)
• **Pan, Wenjie**
215500 Changshu Jiangsu (CN)

(74) Representative: **Habets, Winand et al**
Altenburg Patent
P.O. Box 82
4100 AB Culemborg (NL)

(54) **Mutual-constraint safety multi-drawer locking mechanism**

(57) The present invention relates to a mutual-constraint safety multi-drawer locking mechanism, consisting of a mounting bracket (1) formed by a main bottom plate (4), an upper top plate (5), a lower bottom plate (6), a limit cover plate (7) and a curved baffle plate (8), and a driving mechanism formed by a "L-type" base plate (21), a lock-plate (22), a shaft pin (23) and a compression spring (24), and an action actuating mechanism which formed by an optional-one model including a spindle and several sets of shaft sleeve and a an all-drawer locked model including a lack lever, a fixed lock piece and a sliding lock piece. The length of spindle is the sum of that of assembled shaft sleeve components and the height of tilted surface on one rotary shaft sleeve, so, only one rotary shaft sleeve has the rotary gap, thus only one drawer may be opened each time. When the lock lever controls the lock head to block up the gap, all-drawer may be locked up. Under only one drawer opened conditions, the other drawers shall be never opened, thus it have high applicability.

FIGURE 1





EUROPEAN SEARCH REPORT

Application Number
EP 08 15 3674

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	DE 20 2006 016615 U1 (SUN CHAIN METAL INDUSTRY CO LT [TW]) 4 January 2007 (2007-01-04) * page 2, paragraph 14 - page 4, paragraph 28; figures 1-6 *	1-10	INV. E05B65/46
A	US 2006/066187 A1 (CHANG CHING-CHANG [TW]) 30 March 2006 (2006-03-30) * page 1, paragraph 16 - page 2, paragraph 20; figures 1-11 *	1-10	
A	US 7 144 092 B1 (CHANG TING-WEI [TW]) 5 December 2006 (2006-12-05) * figures 1-5 *	1	
A	US 2003/076016 A1 (WESTWINKEL FLORIAN [CA]) 24 April 2003 (2003-04-24) * the whole document *	1	
The present search report has been drawn up for all claims			TECHNICAL FIELDS SEARCHED (IPC)
			E05B
Place of search		Date of completion of the search	Examiner
Munich		21 October 2010	Friedrich, Albert
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			

1
EPO FORM 1503 03.82 (P04C01)

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

EP 08 15 3674

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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

21-10-2010

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 202006016615 U1	04-01-2007	NONE	
US 2006066187 A1	30-03-2006	NONE	
US 7144092 B1	05-12-2006	NONE	
US 2003076016 A1	24-04-2003	NONE	