(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **04.07.2007 Bulletin 2007/27**

(51) Int Cl.: **B65H 3/08** (2006.01)

B65H 3/48 (2006.01)

(43) Date of publication A2: 09.08.2006 Bulletin 2006/32

(21) Application number: 06001324.0

(22) Date of filing: 23.01.2006

(84) Designated Contracting States:

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI

Designated Extension States:

AL BA HR MK YU

(30) Priority: 02.02.2005 JP 2005026332

(71) Applicant: Komori Corporation Sumida-ku Tokyo (JP) (72) Inventor: Kato, Kazuhiko Toride-shi Ibaraki (JP)

(74) Representative: von Samson-Himmelstjerna, Friedrich et al SAMSON & PARTNER Widenmayerstrasse 5 80538 München (DE)

(54) Sheet convey apparatus

(57)A sheet convey apparatus includes a pile board (111), sheet air blowers (116) and a leveling foot (117), and first, second, and third suction ports (112,113,121). A plurality of sheets are to be stacked on the pile board. The sheet air blowers (116) and the leveling foot (117) supply air between first and second sheets which are the first and second when counted from an uppermost one of the sheets stacked on the pile board, to separate the first sheet from the second sheet. The first suction ports (112) are supported to be movable in a direction of sheet thickness, and chuck and hold a trailing edge of the separated first sheet to lift upward the separated first sheet. The second suction ports (113) are supported to be movable in a sheet back-and-forth direction, and chuck and hold a more sheet leading edge side than a portion chucked by the first suction ports of the first sheet transferred from the first suction ports, and convey the first sheet forward. The third suction ports (121) are supported to be movable in the sheet back-and-forth direction, and chuck and hold the trailing edge of the first sheet transferred from the first suction ports, and convey the first sheet forward.

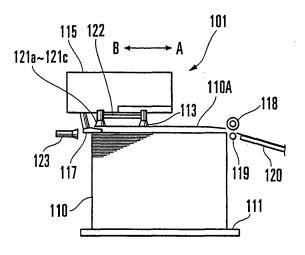
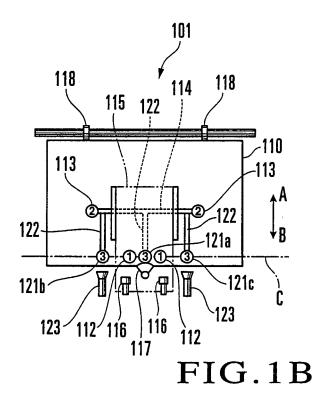


FIG.1A





EUROPEAN SEARCH REPORT

Application Number

EP 06 00 1324

ı	DOCUMENTS CONSID						
Category	Citation of document with in of relevant pass	ndication, where appropriate ages		Relevant o claim	CLASSIFICATION OF THE APPLICATION (IPC)		
Х	DE 27 07 040 A1 (ADAMOVSKE STR 20 October 1977 (1977-10-20)		Y NP) 1-	-6,9	INV. B65H3/08		
Υ	* the whole documer		7,	,8	B65H3/48		
Х	DE 36 34 659 A1 (ADAMOVSKE STROZVS [CS]) 16 April 1987 (1987-0			-6,9			
Υ	* the whole documer	it *	7 7,	,8			
X	US 6 345 818 B1 (ST [US] ET AL) 12 Febr * the whole documer	uary 2002 (2002-	RICH 1 02-12)				
D,Y	JP 03 024511 Y (KOM 28 May 1991 (1991-6 * figure 5 *		7,	,8			
Y	EP 0 453 835 A2 (HE AG [DE]) 30 October * the whole documer	· 1991 (1991-10-3	MASCH 7,	,8			
A	GB 1 240 164 A (MIL		HINERY		TECHNICAL FIELDS SEARCHED (IPC)		
	CO [US]) 21 July 1971 (1971-07				В65Н		
	The present search report has	Date of completion of	f the search		Examiner		
	The Hague	29 May 20	07	baut, Emile			
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		E∶ea afte her D∶do L∶doo	T: theory or principle underlying the invention E: earlier patent document, but published on, or after the filing date D: document oited in the application L: document oited for other reasons &: member of the same patent family, corresponding				

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

EP 06 00 1324

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.

29-05-2007

Patent document cited in search report		Publication date	Patent family member(s)		Publication date	
DE 2707040	A1	20-10-1977	CS DD SE	181553 B1 129014 A1 7702868 A	31-03-1978 21-12-1977 16-09-1977	
DE 3634659	A1	16-04-1987	CS SU US	8507257 A1 1512896 A1 4786043 A	 12-03-1987 07-10-1989 22-11-1988	
US 6345818	B1	12-02-2002	NONE		 	
JP 3024511	Υ	28-05-1991	JP	63035738 U	 08-03-1988	
EP 0453835	A2	30-10-1991	AU AU CA DE JP JP US	641236 B2 7535091 A 2040573 A1 4105967 A1 2609773 B2 4226227 A 5092578 A	 16-09-1993 07-11-1991 28-10-1991 31-10-1991 14-05-1997 14-08-1992 03-03-1992	
GB 1240164	A	21-07-1971	CH DE FR US	479474 A 1786232 A1 1579392 A 3482833 A	 15-10-1969 20-01-1972 22-08-1969 09-12-1969	

FORM P0459

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