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Method for separating a predetermined number of sheets from a stack of sheets LENNOX HEARTH PRODUCTS WIND HILL CONCEPTS Separating sheets from a stack ASOMM WIND HILL CONCEPTS

WO9944929

Method for separating a predetermined number of sheets from a stack of sheets US5722811

•	Patent Assignee LENNOX HEARTH PRODUCTS WIND HILL CONCEPTS	•	Publication Information US5722811 A 1998-03-03 [US5722811]
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•	Fampat familyUS5722811AUS5984622A1999-11-16		[US5722811] [US5984622]

Abstract:

(US5722811)

A method of separation from a stack of sheets a block of predetermined number of sheets, the method including retaining the stack so that a portion of one edge of each consecutive foremost sheet is free to bend away from the stack, directing a plane of air flow sequentially on to the foremost surfaces of a predetermined number of foremost sheets to bend at least a portion of the free edge of each of the predetermined number of foremost sheets away from the stack, separating the bent predetermined number of foremost sheets into a block and removing the block from the remaining sheets in the stack. Preferably, the plane of the air flow intersects the plane of the sheets in the stack in the range of 5 DEG -10 DEG . The plane of the air flow can be directed to bend the free edge or just the corners of sheets in the block to be separated. In one example, the stack foremost end is inclined downward and the air flow is directed upward.





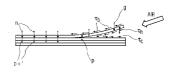


FIG. 1b

Separating sheets from a stack WO9944929

Patent Assignee ASOMM WIND HILL CONCEPTS	 Publication Information WO9944929 A1 1999-09-10 [WO9944929]
 Inventor VASILIEV VLADIMIR P GERASIMOV OLEG M KISLOV ALEXANDER V International Patent Classification B65H-003/08 B65H-003/14 B65H-003/48 B65H-033/00 CPC Code B65H-003/08; B65H-003/14; B65H-003/48; B65H-033/00 -2301/422; B65H-2301/541; B65H-2511/30 	• <u>Priority Details</u> 1998US-09032859 1998-03-02 1999WO-US04647 1999-03-02 0; B65H
Fampat family WO9944929 A1 1999-09 CA2322433 A1 1999-09 AU2890799 A 1999-09 EP1121315 A1 2001-08 EP1121315 A4 2004-08	0-10 [CA2322433] 0-20 [AU9928907] 0-8 [EP1121315]

Abstract:

(EP1121315)

A method of and apparatus for separation from a stack of sheets a block of a predetermined number of sheets, the method including moving the stack in a forward direction, directing an air stream across one corner of the forward portion of the stack to spread the corners apart, sensing and counting the number of spread sheet corners that pass a predetermined location, and separating the group of sheets from the remainder of the stack when the sensed and counted sheets reach a predetermined number. Further directing a thin plane of air toward the corner and center of the sheets at said location to cause a greater space between the sheets in the group and the next sheet in the stack. Also, vacuum nozzles are provided to remove unwanted air from above and below the stack and group. With the group so formed, separation includes imparting lateral force on the group edges. (From US5984622 A)

