

Title (en)  
Pile elevating device

Title (de)  
Stapelhubvorrichtung

Title (fr)  
Dispositif de levage d'une pile

Publication  
**EP 0673865 B1 19980701 (DE)**

Application  
**EP 95104010 A 19950318**

Priority  
DE 4410384 A 19940325

Abstract (en)  
[origin: US5556252A] A method and apparatus for feeding sheets from a top of a sheet stack supported on a stack lifting table to a sheet processing machine. The stack lifting table supporting the sheet stack is raised by a motor until the top of the sheet stack has reached a predetermined maximum level. At this position, the sheets are fed by a feeding mechanism from the sheet stack to the sheet processing machine to lessen the stack height until the top of the sheet stack has reached a predetermined minimum level as determined by a sensor. The rate at which the stack height is lessened as sheets are fed from the stack lifting table is then determined by a controller from the known distance between the predetermined maximum and minimum levels and a value corresponding to the speed at which sheets are fed from the stack. The speed value, or sheet cycle time, may be received from the processing machine, or may be a time duration measured by a timer. The motor is then controllably operated to raise the stack lifting table at a rate corresponding to the rate at which the stack height is lessened, thereby maintaining the top of the stack at substantially the same height as sheets are fed to the sheet processing machine.

IPC 1-7  
**B65H 1/14**; **B65H 1/18**

IPC 8 full level  
**B65H 1/14** (2006.01); **B65H 1/18** (2006.01); **B65H 1/30** (2006.01)

CPC (source: EP US)  
**B65H 1/14** (2013.01 - EP US); **B65H 1/18** (2013.01 - EP US); **B65H 2511/13** (2013.01 - EP US); **B65H 2801/21** (2013.01 - EP US); **Y10S 414/105** (2013.01 - EP)

Cited by  
CN101962128A

Designated contracting state (EPC)  
AT CH DE FR GB IT LI

DOCDB simple family (publication)  
**US 5556252 A 19960917**; AT E167845 T1 19980715; DE 4410384 C1 19950524; DE 59502665 D1 19980806; EP 0673865 A2 19950927; EP 0673865 A3 19960320; EP 0673865 B1 19980701; JP 2825775 B2 19981118; JP H07267387 A 19951017

DOCDB simple family (application)  
**US 41070695 A 19950327**; AT 95104010 T 19950318; DE 4410384 A 19940325; DE 59502665 T 19950318; EP 95104010 A 19950318; JP 6457295 A 19950323