

Title (en)  
Document sorting machine

Title (de)  
Maschine zur Sortierung von Dokumenten

Title (fr)  
Trieuse de documents

Publication  
**EP 1862414 A3 20071219 (EN)**

Application  
**EP 07114993 A 20050606**

Priority  
• EP 05747312 A 20050606  
• US 57662904 P 20040604  
• US 63116004 P 20041129

Abstract (en)  
[origin: EP1862414A2] A document feeder system for use in a document sorting apparatus is disclosed. The document feeder system comprises upper and lower portions disposed on opposite sides of a document path, the upper and lower portions being movable relative to one another between a feeding position and a jam clearance position. The feeder system further comprises a sensor system for detecting the passage of documents along the document path, the sensor system having an emitter (128) being adapted to emit visible light which impinges on a first region of the document path including the receiver (127) when the upper and lower portions of the feeder system are in the feeding position and no document is present in the first region, and which impinges on a second region of the document path when the upper and lower portions of the feeder system are in the jam clearance position. The sensor system further comprises a controller connected to the emitter and receiver and adapted to adjust the intensity of light emitted by the emitter in accordance with the intensity of light received by the receiver such that when the upper and lower portions of the feeder system are in the jam clearance position the second region of the document path is illuminated by the light emitted from the emitter.

IPC 8 full level  
**B65H 5/00** (2006.01); **B65H 1/06** (2006.01); **B65H 3/06** (2006.01); **B65H 7/00** (2006.01); **B65H 15/00** (2006.01); **B65H 29/60** (2006.01); **B65H 33/14** (2006.01); **B65H 39/10** (2006.01); **G07D 11/00** (2006.01)

CPC (source: EP US)  
**B65H 1/06** (2013.01 - EP US); **B65H 3/063** (2013.01 - EP); **B65H 3/0669** (2013.01 - EP); **B65H 5/00** (2013.01 - EP); **B65H 7/00** (2013.01 - EP); **B65H 29/60** (2013.01 - EP); **B65H 33/14** (2013.01 - EP); **B65H 39/10** (2013.01 - EP); **G07D 11/50** (2018.12 - EP); **B65H 2301/16** (2013.01 - EP); **B65H 2301/33214** (2013.01 - EP); **B65H 2402/441** (2013.01 - EP); **B65H 2402/54** (2013.01 - EP); **B65H 2407/20** (2013.01 - EP); **B65H 2511/20** (2013.01 - EP); **B65H 2511/212** (2013.01 - EP); **B65H 2511/216** (2013.01 - EP); **B65H 2511/30** (2013.01 - EP); **B65H 2511/414** (2013.01 - EP); **B65H 2511/51** (2013.01 - EP); **B65H 2511/515** (2013.01 - EP); **B65H 2513/42** (2013.01 - EP); **B65H 2553/41** (2013.01 - EP); **B65H 2557/24** (2013.01 - EP); **B65H 2601/11** (2013.01 - EP); **B65H 2601/325** (2013.01 - EP); **B65H 2701/1912** (2013.01 - EP)

C-Set (source: EP)  
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3. **B65H 2511/216 + B65H 2220/01**  
4. **B65H 2511/30 + B65H 2220/01**  
5. **B65H 2511/414 + B65H 2220/01**  
6. **B65H 2511/51 + B65H 2220/01**  
7. **B65H 2511/515 + B65H 2220/01**  
8. **B65H 2513/42 + B65H 2220/02**  
9. **B65H 2513/42 + B65H 2220/03**

Citation (search report)  
• [A] US 5806650 A 19980915 - MENNIE DOUGLAS U [US], et al  
• [A] EP 1324289 A2 20030702 - XEROX CORP [US]  
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• [A] AIKENS A J: "JAM ZONE CLEARANCE INDICATORS", XEROX DISCLOSURE JOURNAL, XEROX CORPORATION. STAMFORD, CONN, US, vol. 23, no. 1, January 1998 (1998-01-01), pages 23, XP000780320  
• [A] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 26 1 July 2002 (2002-07-01)

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Designated extension state (EPC)  
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