

Publication

EP 0374481 A3 19940803

Application

EP 89121238 A 19891116

Priority

DE 3843602 A 19881223

Abstract (en)

[origin: JPH02214550A] PURPOSE: To monitor the destruction of bank notes by the destruction stage itself or an adequate sensor means capable of detecting the prompt result thereof. CONSTITUTION: The destruction of sheet materials, more particularly the bank notes, is monitored within an automatic classifying apparatus for continuously sending the sheet materials, sheet by sheet, to a cutting means 20 driven by a motor 15 having mesh cutter blocks 12, 13. At this time, the destruction stage and/or the prompt result thereof is detected by the sensor means, for example, an optical barrier 11, a proximity caliper 16, a current sensor 17, a microphone 18, an optical sensor 19, a band-pass filter 21 or the like. The signal of at least one sensor is sent to a microprocessor where evaluation is made relating to a plurality of parameters, such as counting, length determination, quality determination and detection of the plurality of bank notes.

IPC 1-7

B02C 18/00; **G07D 9/00**; **G07C 3/00**

IPC 8 full level

B02C 23/00 (2006.01); **B02C 18/00** (2006.01); **G07C 3/00** (2006.01); **G07D 9/00** (2006.01); **G07D 11/00** (2006.01)

CPC (source: EP US)

B02C 18/0007 (2013.01 - EP US); **G07C 3/00** (2013.01 - EP US); **G07D 11/16** (2018.12 - EP US); **G07D 11/22** (2018.12 - EP US); **G07D 11/50** (2018.12 - EP US); **B02C 2018/0038** (2013.01 - EP US)

Citation (search report)

- [DY] DE 2759678 C2 19820225
- [YA] DE 1198094 B 19650805 - FRITZ FEUERBACHER GESENKSCHMIE
- [A] US 3431805 A 19690311 - MARSHALL BURTON H
- [A] US 3474265 A 19691021 - FRANTZ JOHN K
- [XP] GB 2209963 A 19890601 - DE LA RUE SYST [GB]
- [A] US 3916165 A 19751028 - KOMSA SASHA

Cited by

WO02072270A1; DE10050486A1; EP0682883A1; EP0565112A3; US5415355A; FR2723859A1; US5772129A; EP0851394A1; US5945602A; US7201340B2; US7661617B2; US8002210B2

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI LU NL SE

DOCDB simple family (publication)

EP 0374481 A2 19900627; **EP 0374481 A3 19940803**; **EP 0374481 B1 19960228**; AT E134532 T1 19960315; DE 3843602 A1 19900705; DE 58909611 D1 19960404; ES 2083372 T3 19960416; HK 1007699 A1 19990423; JP 2884247 B2 19990419; JP H02214550 A 19900827; US 5039020 A 19910813

DOCDB simple family (application)

EP 89121238 A 19891116; AT 89121238 T 19891116; DE 3843602 A 19881223; DE 58909611 T 19891116; ES 89121238 T 19891116; HK 98106917 A 19980626; JP 33469189 A 19891222; US 45407989 A 19891221