

Title (en)

Automatic device for adjusting the height of a printing device comprising a sensor

Title (de)

Vorrichtung zur automatischen Anpassung der Höhe einer Druckeinrichtung mit einem Abtaster

Title (fr)

Dispositif d'adaptation automatique de la hauteur d'un dispositif d'impression comportant un capteur

Publication

EP 0993957 A3 20001213 (DE)

Application

EP 99120232 A 19991011

Priority

DE 19847062 A 19981013

Abstract (en)

[origin: EP0993957A2] A device for automatically adjusting the height of a printer arranged above a conveyor comprises a spring-supported print head mounting which is movable at least at right angles to the conveyance direction of the surface to be printed. The printer is provided with a print head holder with an attached scanner device. Preferred Features: The weight of the print head mounting is at least partly balanced by an adjustable tension spring arranged above the mounting. The printing device is preferably an ink jet, laser or digital printer which is linked to a control device. The control device is also linked to both the conveyor and a print-impression memory device.

IPC 1-7

B41J 25/304; **B41J 2/01**; **B41J 3/407**; **B41F 17/34**

IPC 8 full level

B41J 2/01 (2006.01); **B41J 3/407** (2006.01)

CPC (source: EP US)

B41J 2/01 (2013.01 - EP US); **B41J 3/4073** (2013.01 - EP US); **B41J 25/304** (2013.01 - EP); **B41J 25/3086** (2013.01 - EP)

Citation (search report)

- [XA] DE 3630782 A1 19880324 - PROTECHNO GMBH [DE]
- [XPA] DE 19813859 A1 19990930 - WOLKE INK JET BEDARF GMBH [DE]
- [YA] EP 0602251 A1 19940622 - SONY CORP [JP]
- [YPD] EP 0908313 A2 19990414 - NUOVO AG EIERVERARBEITUNGSMASC [CH]
- [A] WO 9742086 A1 19971113 - WILLETT INT LTD [GB], et al
- [A] EP 0387641 A1 19900919 - BULL HN INFORMATION SYST [IT]
- [A] PATENT ABSTRACTS OF JAPAN vol. 12, no. 340 (M - 740)<3187> 13 September 1988 (1988-09-13)

Cited by

CN103419509A; FR2859129A1; CN104354477A; CN103707650A; CN112428697A; CN110072702A; CN106541715A; US9815307B2; US10737487B2; WO2005018941A1; WO2018108391A1; US7976906B2; US8603589B2; WO2023147283A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0993957 A2 20000419; **EP 0993957 A3 20001213**; **EP 0993957 B1 20060809**; AT E335613 T1 20060915; DE 19847062 A1 20010426; DE 19847062 B4 20040318; DE 59913756 D1 20060921; ES 2270557 T3 20070401

DOCDB simple family (application)

EP 99120232 A 19991011; AT 99120232 T 19991011; DE 19847062 A 19981013; DE 59913756 T 19991011; ES 99120232 T 19991011