

Title (en)  
Thermal printer

Title (de)  
Thermodrucker

Title (fr)  
Imprimante thermique

Publication  
**EP 1405730 A1 20040407 (EN)**

Application  
**EP 03255951 A 20030923**

Priority  
• JP 2002291597 A 20021003  
• JP 2002379559 A 20021227

Abstract (en)  
The printer has a frame (2) that supports a platen roller (4) and its driving source, and disposed within a gear box. A frame (3) mounted with a thermal head has a set of heating resistors to make pressure contact with the roller. The frame (3) has supporting hollow (3c) formed with coming-out preventing parts, and body housing is mounted with the frames. The frame (2) is attached and detached to and from the frame (3).

IPC 1-7  
**B41J 11/04**; **B41J 2/32**; **B41J 25/34**

IPC 8 full level  
**B41J 2/32** (2006.01); **B41J 11/04** (2006.01); **B41J 25/34** (2006.01)

CPC (source: EP)  
**B41J 2/32** (2013.01); **B41J 11/04** (2013.01); **B41J 25/34** (2013.01)

Citation (search report)  
• [X] US 5546116 A 19960813 - NARDONE EDWARD A [US], et al  
• [X] WO 0032404 A1 20000608 - A P S ENGINEERING S A R L SOC [FR], et al  
• [A] FR 2766411 A1 19990129 - INVESTIX SA [FR]  
• [A] WO 9964242 A2 19991216 - PRIMERA TECHNOLOGY INC [US]  
• [A] EP 1338424 A1 20030827 - SII P & S INC [JP]  
• [X] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 02 29 February 1996 (1996-02-29)  
• [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 118 (M - 475) 2 May 1986 (1986-05-02)

Cited by  
EP3251861A1; CN107415493A; EP3150387A4; US10059127B2

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 1405730 A1 20040407**; **EP 1405730 B1 20060412**; DE 60304531 D1 20060524; DE 60304531 T2 20061207

DOCDB simple family (application)  
**EP 03255951 A 20030923**; DE 60304531 T 20030923