

Title (en)  
Hand-held printing apparatus.

Title (de)  
Handdruckapparat.

Title (fr)  
Appareil d'impression tenu à la main.

Publication  
**EP 0036295 A2 19810923 (EN)**

Application  
**EP 81301030 A 19810312**

Priority  
GB 8008794 A 19800314

Abstract (en)  
A hand-held ink jet printing apparatus (11) is shown which has a carriage (13) adapted to be held in the hand of the user. Wheels (31) on the carriage (13) allow the carriage (13) to be moved over a surface to be printed. A plurality of nozzles (37) located in a common nozzle block (39) mounted on the carriage (13) are connected to a plurality of electrically operated solenoid valves (65) which supply ink to the nozzles (37). A microcomputer (17) remote from the carriage (13) controls the operation of the electrically operated solenoid valves (65). An encoder disk assembly (109) mounted on the carriage (13) and driven by the wheels (31) supplies electrical signals to the microcomputer (17) indicative of the rate at which the carriage (13) is moved over the surface to be printed.

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**B41J 3/04**

IPC 8 full level  
**B41J 2/01** (2006.01); **B41J 2/04** (2006.01); **B41J 3/28** (2006.01); **B41J 3/36** (2006.01)

CPC (source: EP)  
**B41J 2/01** (2013.01); **B41J 2/04** (2013.01); **B41J 3/28** (2013.01); **B41J 3/36** (2013.01)

Cited by  
FR2592337A1; EP0816108A1; DE3314041A1; GB2266863A; US5880448A; US5461401A; DE3627494A1; EP0088630A3; KR100584520B1; US5816719A; DE19522600A1; DE19522600C2; US5778347A; GB2278088A; US5489925A; GB2278088B; US7083266B2; US11235585B2; AU2003202632B2; CN1319751C; DE19915072A1; FR2573011A1; EP0108683A1; FR2535250A1; AU579209B2; EP1613476A4; WO9409988A1; WO8303574A1; WO2006007901A1; WO2020009699A1; US7252379B2; US7470021B2; US8029130B2; WO03068515A1; WO8602884A1; EP2814673B1

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