

Title (en)

Dot substitution to compensate for failed ink jet nozzles

Title (de)

Ersatz von Punkten zur Kompensierung fehlender Tintenstrahldüsen

Title (fr)

Substitution de points pour la compensation des buses à jet d'encre défectueuses

Publication

**EP 0983855 A2 20000308 (EN)**

Application

**EP 99306367 A 19990812**

Priority

US 14457798 A 19980831

Abstract (en)

An ink jet printer and a method of operating an ink jet printer wherein inoperative true black printing nozzles are detected, and substitute dots formed of non-black are printed at pixel locations that normally would be printed with the inoperative true black printing nozzles if such nozzles were operative. Each substitute dot comprises one or more constituent non-black dots, and in accordance with one implementation, each substituted dot comprises a composite or process black dot formed of two or three of cyan, magenta or yellow inks. <IMAGE>

IPC 1-7

**B41J 2/165**; **B41J 2/21**

IPC 8 full level

**B41J 2/01** (2006.01); **B41J 2/045** (2006.01); **B41J 2/165** (2006.01); **B41J 2/21** (2006.01)

CPC (source: EP)

**B41J 2/2103** (2013.01); **B41J 2/2139** (2013.01)

Citation (applicant)

- US 5276970 A 19940111 - WILCOX DARREN W [US], et al
- US 5404020 A 19950404 - COBBS KEITH E [US]
- US 5455608 A 19951003 - STEWART LOWELL [US], et al
- US 5434430 A 19950718 - STEWART LOWELL [US]

Cited by

WO2004050369A1; US7740347B2; AU2004233532B2; AU2000253741B2; EP1452319A1; AU2004203506B2; EP1151867A3; EP1303408A4; AU2005202029B2; EP1308281A3; KR100706709B1; EP1308280A3; DE10307136B4; AU2002224667B2; CN1328054C; DE102004021853B4; AU2003302611B2; EP1308279A3; EP1211078A1; EP1310373A3; KR100501858B1; US6428139B1; US7604318B2; US7313561B2; US6575549B1; WO0202330A1; WO0202331A1; US7148977B2; US7908125B2; US7519772B2; US6702426B2; US6460964B2; US7327503B2; US8939535B2; US9028028B2; WO02062582A1; US7101011B2; US6908176B2; US7168782B2; US7770988B2; US7946672B2; US7243916B2; US7431281B2; US7404616B2; US7874556B2; US7533877B2; US7075677B1; US7246871B2; US7222929B2; US6953238B2; US7914104B2; US8382232B2; US7540582B2; US7592829B2; US7610163B2; US7611215B2; US7660998B2; US7461918B2; US7104626B2; US7121639B2; US7152942B2; US7165824B2; US7188282B2; US7278697B2; US7328115B2; US7360131B2; US7377608B2; US7399043B2; US7465005B2; US7467839B2; US6786568B2; US6679582B2; US6969145B2; US7707621B2; US7722146B2; US7747646B2; US7747887B2; US7770008B2; US7783886B2; US7800410B2; US7818519B2; US7831827B2; US7976116B2; US7996880B2; US8005636B2; US7523111B2; US7540579B2; US7573301B2

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 0983855 A2 20000308**; **EP 0983855 A3 20000802**; JP 2000071432 A 20000307

DOCDB simple family (application)

**EP 99306367 A 19990812**; JP 23794399 A 19990825