

Title (en)
FAULT-TOLERANT ARCHITECTURE FOR IN-CIRCUIT PROGRAMMING

Title (de)
FEHLERTOLERANTE ARCHITEKTUR FÜR IN-CIRCUIT-PROGRAMMIERUNG

Title (fr)
ARCHITECTURE DE TOLERANCE DE FAUTES POUR PROGRAMMATION EN-CIRCUIT

Publication
EP 1008042 A4 20040414 (EN)

Application
EP 97937140 A 19970806

Priority
US 9713848 W 19970806

Abstract (en)
[origin: WO9908186A1] The present invention provides a method and apparatus for providing fault-tolerance for in-circuit programming systems. The invention operates by storing a minimal set of code to initialize the in-circuit programming process in a protected memory (107) so that if the programming process fails, the process can be restarted from the protected memory. This type of fault-tolerance is especially important in systems which allow the code which accomplishes the in-circuit programming to be modified by the in-circuit programming process. One embodiment of the invention provides a multiplexer (110) to selectively switch between a normal boot code sequence (102) and a protected boot code sequence (107), as well as a watchdog timer (122) to monitor the in-circuit programming process to determine whether the process is progressing properly.

IPC 1-7
G06F 9/445; **G06F 11/14**

IPC 8 full level
G06F 9/445 (2006.01); **G06F 11/00** (2006.01); **G06F 11/14** (2006.01); **G06F 11/30** (2006.01); **G11B 27/00** (2006.01)

CPC (source: EP)
G06F 8/60 (2013.01); **G06F 11/0748** (2013.01); **G06F 11/0793** (2013.01); **G06F 11/1417** (2013.01); **G06F 11/0757** (2013.01); **G06F 11/1443** (2013.01)

Citation (search report)

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- [X] US 5327531 A 19940705 - BEALKOWSKI RICHARD [US], et al
- [A] US 5247659 A 19930921 - CURRAN MICHAEL W B [GB], et al
- See references of WO 9908186A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
WO 9908186 A1 19990218; EP 1008042 A1 20000614; EP 1008042 A4 20040414; EP 1744244 A2 20070117; EP 1744244 A3 20080507; JP 2001512869 A 20010828; JP 4136309 B2 20080820

DOCDB simple family (application)
US 9713848 W 19970806; EP 06019541 A 19970806; EP 97937140 A 19970806; JP 2000506583 A 19970806