

Title (en)  
IMPROVED INTER-DEVICE SERIAL BUS PROTOCOL

Title (de)  
VERBESSERTES PROTOKOLL ZWISCHEN GERÄTEN FÜR EINEN SERIELLEN BUS

Title (fr)  
PROTOCOLE AMELIORE DE BUS EN SERIE ENTRE DISPOSITIFS

Publication  
**EP 1145132 A2 20011017 (EN)**

Application  
**EP 99932038 A 19990630**

Priority  
• US 9914696 W 19990630  
• US 9138398 P 19980701  
• US 24893999 A 19990211

Abstract (en)  
[origin: WO0002134A2] An inter-device serial bus protocol facilitates the interconnection and communication among various devices via a serial bus. The bus (48) comprises a clock wire, a data wire, and a start/stop wire. A master serial bus interface couples a master device to the serial bus. A slave serial bus interface couples a slave device to the serial bus. The master serial bus interface (180) may comprise a transaction initiator, a data write mechanism, a data read mechanism, and a clock driver. The transaction initiator initiates a transaction by pulling the signal level of the start/stop wire low. The data write mechanism controls the signal level on the data wire in accordance with the data to be written to the slave device. The data read mechanism reads data by monitoring the signal level on the data wire. The clock driver controls the signal level on the clock wire in accordance with a desired clock signal.

IPC 1-7  
**G06F 13/42**

IPC 8 full level  
**G06F 13/12** (2006.01); **G06F 13/38** (2006.01); **G06F 13/42** (2006.01)

CPC (source: EP KR)  
**G06F 13/42** (2013.01 - KR); **G06F 13/4291** (2013.01 - EP)

Designated contracting state (EPC)  
CH DE ES FI FR GB LI SE

DOCDB simple family (publication)  
**WO 0002134 A2 20000113**; **WO 0002134 A3 20010927**; AU 4843299 A 20000124; BR 9911732 A 20020129; CA 2336385 A1 20000113; EP 1145132 A2 20011017; EP 1145132 A3 20020821; IL 140568 A0 20020210; JP 2003534580 A 20031118; KR 20010053365 A 20010625; NO 20006698 D0 20001229; NO 20006698 L 20010220

DOCDB simple family (application)  
**US 9914696 W 19990630**; AU 4843299 A 19990630; BR 9911732 A 19990630; CA 2336385 A 19990630; EP 99932038 A 19990630; IL 14056899 A 19990630; JP 2000558463 A 19990630; KR 20017000012 A 20010102; NO 20006698 A 20001229