

Title (en)
SYSTEM AND METHOD FOR MODULARIZING THE FUNCTIONALITY OF AN ELECTRONIC DEVICE

Title (de)
SYSTEM UND VERFAHREN ZUR MODULARISIERUNG DER FUNKTIONALITÄT EINES ELEKTRONISCHEN GERÄTS

Title (fr)
SYSTEME ET PROCEDE PERMETTANT DE MODULARISER LA FONCTIONNALITE D'UN DISPOSITIF ELECTRONIQUE

Publication
EP 1254523 A2 20021106 (EN)

Application
EP 01907089 A 20010207

Priority
• US 0103989 W 20010207
• US 49926800 A 20000207

Abstract (en)
[origin: WO0158039A2] A system for modularizing the functionality of an electronic device (10). The system includes a first mechanism for separating different functional blocks of the electronic device into spatially separable hardware modules (12, 14, 16). A second mechanism interfaces the hardware modules via spatially reconfigurable communications links (38, 40). In a specific embodiment, the spatially reconfigurable communications links are infrared links or optical links. The system of the present invention provides for the construction of an integrated (10) device that includes a wireless transceiver (34) and a first circuit (16) that provides a user-interface to receive input signals and to provide output signals. A second circuit (18) processes the input signals and delivers the output signals to the first circuit. A third circuit establishes local wireless communications between the first circuit and the second circuit. In the illustrative embodiment, the first circuit (16) receives voice-input signals and the second circuit processes the voice-input signals. The first circuit includes a speaker that outputs voice signals and a fourth circuit (14) that provides an optical user-interface. The third circuit establishes local wireless communications between the first, second, third, and/or fourth circuits. The second circuit (12) includes a mechanism for providing call processing (34) and diagnostic services (28). The third circuit includes a point-to-point local transport system such as BlueTooth.

IPC 1-7
H04B 5/00; **H04B 1/38**; **H04M 1/60**; **H04M 1/737**

IPC 8 full level
H04B 1/20 (2006.01); **H04B 1/38** (2006.01); **H04B 10/00** (2013.01); **H04B 10/112** (2013.01); **H04B 10/22** (2006.01); **H04B 10/80** (2013.01); **H04M 1/00** (2006.01); **H04M 1/60** (2006.01); **H04M 1/725** (2006.01); **H04Q 7/32** (2006.01); **H04W 84/10** (2009.01); **H04W 88/02** (2009.01); **H04M 1/72412** (2021.01)

CPC (source: EP KR)
H04B 1/202 (2013.01 - EP); **H04B 1/3833** (2013.01 - EP); **H04B 1/40** (2013.01 - KR); **H04M 1/6091** (2013.01 - EP); **H04M 1/72412** (2021.01 - EP); **H04M 2250/02** (2013.01 - EP)

Citation (search report)
See references of WO 0158039A2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
WO 0158039 A2 20010809; **WO 0158039 A3 20020502**; AU 3491401 A 20010814; EP 1254523 A2 20021106; JP 2003525540 A 20030826; KR 20020079832 A 20021019

DOCDB simple family (application)
US 0103989 W 20010207; AU 3491401 A 20010207; EP 01907089 A 20010207; JP 2001557185 A 20010207; KR 20027010094 A 20020805