

Title (en)
DETERMINING DEVICE STATE USING A STATE-DETECTION CIRCUIT

Title (de)
BESTIMMUNG EINES VORRICHTUNGSZUSTANDS MIT EINER ZUSTANDSERKENNUNGSSCHALTUNG

Title (fr)
DÉTERMINATION D'ÉTAT DE DISPOSITIF À L'AIDE D'UN CIRCUIT DE DÉTECTION D'ÉTAT

Publication
EP 3345072 A4 20180808 (EN)

Application
EP 16842831 A 20160830

Priority
• US 201562211825 P 20150830
• US 201562211827 P 20150830
• US 2016049524 W 20160830

Abstract (en)
[origin: WO2017040543A1] An audio/video (A/V) hub includes a state-detection circuit coupled to at least one pin in a high-definition multimedia-interface input connector, which can electrically couple to an entertainment device. When electrically coupled to the entertainment device, the state-detection circuit establishes a ground loop between the electronic device and the entertainment device. A control circuit in the A/V hub detects whether there is electrical coupling with the entertainment device using the state-detection circuit. When the electrical coupling is detected, the control circuit provides a set of first control commands associated with different types of entertainment devices until, in response, content activity is detected via the input connector. Moreover, when the content activity is detected, the control circuit provides a set of second control commands associated with different providers of entertainment devices until a change in a state of the entertainment device is detected via the input connector and the state-detection circuit.

IPC 8 full level
G06F 13/14 (2006.01); **G06F 3/0488** (2013.01); **G06F 11/00** (2006.01); **G09G 5/00** (2006.01); **H04N 21/436** (2011.01); **H04N 21/4363** (2011.01); **H04N 21/485** (2011.01)

CPC (source: EP)
G06F 3/0488 (2013.01); **G06F 11/3013** (2013.01); **G06F 11/3027** (2013.01); **G06F 11/3055** (2013.01); **G06F 11/3058** (2013.01); **G09G 5/006** (2013.01); **G09G 5/12** (2013.01); **H04N 21/43615** (2013.01); **H04N 21/43635** (2013.01); **H04N 21/485** (2013.01); **G09G 2370/10** (2013.01); **G09G 2370/12** (2013.01); **G09G 2370/16** (2013.01); **G09G 2370/22** (2013.01)

Citation (search report)
• [X] WO 2015116553 A1 20150806 - UNIVERSAL ELECTRONICS INC [US]
• [A] EP 2563018 A1 20130227 - SHARP KK [JP]
• [A] US 2013076989 A1 20130328 - BARNETT BRIAN [US], et al
• [A] HDMI LICENSING ET AL: "Supplement 1 Consumer Electronics Control (CEC)", 17 March 2013 (2013-03-17), XP055134477, Retrieved from the Internet <URL:https://web.archive.org/web/20130317190902/http://xtreamerdev.googlecode.com/files/CEC_Specs.pdf> [retrieved on 20140812]
• See references of WO 2017040543A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2017040543 A1 20170309; EP 3345072 A1 20180711; EP 3345072 A4 20180808; EP 4270203 A1 20231101

DOCDB simple family (application)
US 2016049524 W 20160830; EP 16842831 A 20160830; EP 22210498 A 20160830