

Title (en)  
Configurable intelligent I/O expansion system

Title (de)  
Konfigurierbares intelligentes E/A-Expansionssystem

Title (fr)  
Système d'expansion d'E/S intelligente configurable

Publication  
**EP 2657848 B8 20171011 (EN)**

Application  
**EP 13162143 A 20130403**

Priority  
US 201213506478 A 20120423

Abstract (en)  
[origin: EP2657848A1] A method and apparatus in a vehicular telemetry system for an intelligent I/O expander. The intelligent I/O expander may be configured in an active mode or a passive mode. A vehicular telemetry hardware system may be configured in a passive serial control mode or an active serial control mode. The intelligent I/O expander capable of adding additional device to the vehicular telemetry system.

IPC 8 full level  
**G06F 13/38** (2006.01); **H04L 12/46** (2006.01)

CPC (source: EP US)  
**G06F 13/102** (2013.01 - US); **G06F 13/385** (2013.01 - EP US); **H04L 12/4625** (2013.01 - US); **H04Q 9/00** (2013.01 - EP US); **H04Q 2209/40** (2013.01 - EP US); **H04Q 2209/823** (2013.01 - EP US); **H04Q 2209/883** (2013.01 - EP US)

Cited by  
EP3171352A3; US10074220B2; US11151806B2; US11790702B2

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

DOCDB simple family (publication)  
**EP 2657848 A1 20131030; EP 2657848 B1 20170906; EP 2657848 B8 20171011**; DE 17186773 T1 20180719; DE 17186775 T1 20180719; EP 3267320 A1 20180110; EP 3267320 B1 20200909; EP 3267321 A1 20180110; EP 3267321 B1 20210922; ES 2645613 T3 20171207; ES 2668980 T1 20180523; ES 2668980 T3 20210624; ES 2668986 T1 20180523; ES 2668986 T3 20220407; PL 2657848 T3 20180430; PL 3267320 T3 20210308; PL 3267321 T3 20220207; US 2013282925 A1 20131024; US 2015089083 A1 20150326; US 2015089084 A1 20150326; US 8918547 B2 20141223; US 9122621 B2 20150901; US 9128867 B2 20150908

DOCDB simple family (application)  
**EP 13162143 A 20130403**; DE 17186773 T 20130403; DE 17186775 T 20130403; EP 17186773 A 20130403; EP 17186775 A 20130403; ES 13162143 T 20130403; ES 17186773 T 20130403; ES 17186775 T 20130403; PL 13162143 T 20130403; PL 17186773 T 20130403; PL 17186775 T 20130403; US 201213506478 A 20120423; US 201414121799 A 20141020; US 201414121847 A 20141024