

Title (en)  
Signalling device

Title (de)  
Signalvorrichtung

Title (fr)  
Dispositif de signalisation

Publication  
**EP 3043111 B1 20170405 (DE)**

Application  
**EP 15150795 A 20150112**

Priority  
EP 15150795 A 20150112

Abstract (en)

[origin: US2016203686A1] A signalling device , in particular for a signalling tower, for purposes of displaying operating states, with at least one signalling module, which has a circuit board element for at least one signalling element for purposes of outputting a signal, in particular for a lighting element for purposes of outputting a signal light, wherein the signalling module can be detachably connected with a further signalling module, and in the connected state the signalling modules are arranged one above another, wherein a connecting conductor, running through the signalling module, is provided for purposes of controlling a circuit board element of the further signalling module, wherein the circuit board element of the signalling module for purposes of forming the connecting conductor has a conducting track assigned to the signalling element of the further signalling module, which conducting track in the connected state of the signalling modules is connected via a contact element with a conducting track; on the circuit board element of the further signalling module, wherein the signalling module has a bayonet coupling element for purposes of connecting with a bayonet coupling element of the further signalling module, wherein in an interconnected, non-rotated state of the bayonet coupling elements the circuit board elements are arranged in a non-contact position, and in an interconnected, rotated state of the bayonet coupling elements the circuit board are arranged in a contact position with one another.

IPC 8 full level  
**F21V 23/06** (2006.01); **F21S 8/00** (2006.01); **F21S 10/02** (2006.01); **F21W 131/403** (2006.01); **F21Y 115/10** (2016.01)

CPC (source: EP US)  
**F21S 8/00** (2013.01 - EP US); **F21S 10/023** (2013.01 - EP US); **F21V 23/06** (2013.01 - EP US); **G08B 7/06** (2013.01 - US);  
**F21W 2131/403** (2013.01 - EP US); **F21Y 2115/10** (2016.07 - EP US)

Citation (opposition)

Opponent : WERMA Holding GmbH + Co. KG

- DE 102011122530 A1 20130704 - WERMA HOLDING GMBH & CO KG [DE]
- DE 19854666 A1 20000608 - SCHNEIDER ELECTRIC GMBH [DE]
- DE 19513983 A1 19951019 - WERMA SIGNALGERAETE GMBH & CO [DE]
- EP 1467140 A2 20041013 - WERMA SIGNALTECHNIK GMBH & CO [DE]
- KR 20140014423 A 20140206 - HANYOUNG NUX CO LTD [KR]
- US 6382811 B1 20020507 - BERNARD JACQUES [FR]
- DE 202013102472 U1 20130617 - YELLOWTEC GMBH [DE]
- DE 102006034164 B4 20080731 - DEHN & SOEHNE [DE]
- DE 29811425 U1 19980917 - STOCKO METALLWARENFAB HENKELS [DE]
- DE 102012215611 A1 20140306 - BOSCH GMBH ROBERT [DE]
- WERMA SIGNALTECHNIK: "WIN Control", NEW PRODUCTS 2014/2015, no. 00112014, XP055446795
- YELLOWTEC: "Litt signalleuchte", YELLOWTEC: RED DOT AWARD, 2017, XP055447461, Retrieved from the Internet <URL:<http://archive.yellowtec.com/en/products-ip/litt/red-dot-award.html>>
- "Banner Engineering TL70 Modular Tower Light Provides Enhanced Customization and In-the-Field Modification Capabilities", BANNER ENGINEERING, 5 November 2014 (2014-11-05), XP055446826

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PL 3043111 T3 20170929; US 10127779 B2 20181113; US 10475304 B2 20191112; US 2016203686 A1 20160714;  
US 2019080571 A1 20190314

DOCDB simple family (application)

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