

Title (en)

WEARABLE GROUP COMMUNICATION DEVICE LINKING

Title (de)

VERBINDUNG VON WEARABLE-VORRICHTUNGEN ZUR GRUPPENKOMMUNIKATION

Title (fr)

LIAISON DE DISPOSITIF DE COMMUNICATION DE GROUPE PORTATIF

Publication

EP 3430826 A4 20190925 (EN)

Application

EP 17767641 A 20170317

Priority

- US 201662310100 P 20160318
- US 2017022988 W 20170317

Abstract (en)

[origin: WO2017161285A1] Systems, methods, software and apparatus enable linking of a wearable end user communication device (EUD) to an intermediate communication device (ICD) utilizing optical symbol sequence matching. Optical symbol reference data corresponding to an optical symbol sequence displayed on the EUD is obtained from the EUD by the ICD. Optical symbol input data is also acquired by the ICD (e.g., via user inputs, EUD device proximity data, image acquisition). The devices are linked if the optical symbol reference data and optical symbol input data match. The optical symbol reference data can be displayed, allowing user confirmation of a match with the optical symbol sequence displayed on the EUD. An ICD user interface touchscreen can present users with selectable color inputs to replicate the optical symbol sequence displayed on the EUD, for example using an LED array. Communications between the devices before and after linking can utilize Bluetooth low energy.

IPC 8 full level

H04W 4/80 (2018.01); **H04L 29/06** (2006.01); **H04W 8/00** (2009.01); **H04W 12/00** (2009.01); **H04W 12/06** (2009.01); **H04W 76/10** (2018.01); **H04W 4/06** (2009.01)

CPC (source: EP US)

H04L 63/18 (2013.01 - EP); **H04W 4/80** (2018.01 - EP); **H04W 12/06** (2013.01 - EP US); **H04W 12/33** (2021.01 - EP); **H04W 12/50** (2021.01 - EP US); **H04W 12/55** (2021.01 - EP US); **H04W 12/71** (2021.01 - EP US); **H04W 12/77** (2021.01 - EP US); **H04W 4/06** (2013.01 - EP); **H04W 8/005** (2013.01 - EP); **H04W 76/10** (2018.01 - EP)

Citation (search report)

- [XPI] EP 3109786 A2 20161228 - BLACKBERRY LTD [CA]
- [IP] WO 2017004070 A1 20170105 - SQUARE INC [US]
- [A] US 2005139680 A1 20050630 - ANTTILA AKSELI [FI], et al
- See references of WO 2017161285A1

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)

WO 2017161285 A1 20170921; CN 109247075 A 20190118; EP 3430826 A1 20190123; EP 3430826 A4 20190925

DOCDB simple family (application)

US 2017022988 W 20170317; CN 201780030650 A 20170317; EP 17767641 A 20170317