

Title (en)
SYSTEMS AND METHODS TO FACILITATE HUMAN/ROBOT INTERACTION

Title (fr)
SYSTÈMES ET PROCÉDÉS POUR FACILITER UNE INTERACTION HOMME/ROBOT

Publication
EP 3271878 A1 20180124 (EN)

Application
EP 16713211 A 20160315

Priority
• US 201514660259 A 20150317
• US 201514660161 A 20150317
• US 2016022443 W 20160315

Abstract (en)
[origin: WO2016149255A1] Short range transmissions are used to identify potential interactions between warehouse workers and warehouse robots in automated warehouses. The robot can be equipped with one or more short range transmission tags, such as radio frequency identification (RFID) tags, while the warehouse worker can be equipped with a short range transmission reader, such as an RFID reader. The robot can detect a warehouse worker that is within range when the RFID tags on the robot are written to by the RFID reader. The warehouse robots and warehouse workers can also be equipped with one or more cameras to identify fiducials in the automated warehouse and to report their positions. A central control or interaction server can ensure that warehouse robots and warehouse workers are routed appropriately to avoid incidents.

IPC 8 full level
G06Q 10/08 (2012.01)

CPC (source: CN EP)
B25J 9/16 (2013.01 - CN); **G05D 1/021** (2024.01 - CN); **G06K 7/10** (2013.01 - CN); **G06Q 10/087** (2013.01 - EP)

Citation (search report)
See references of WO 2016149255A1

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 2016149255 A1 20160922; CN 107407936 A 20171128; EP 3271878 A1 20180124; JP 2018511125 A 20180419

DOCDB simple family (application)
US 2016022443 W 20160315; CN 201680015959 A 20160315; EP 16713211 A 20160315; JP 2017547417 A 20160315