

Title (en)  
DEVICE AND SYSTEM INCLUDING MULTIPLE DEVICES FOR SUPERVISION AND CONTROL OF MACHINES IN INDUSTRIAL INSTALLATION

Title (de)  
VORRICHTUNG UND SYSTEM MIT MEHREREN VORRICHTUNGEN ZUR ÜBERWACHUNG UND STEUERUNG VON MASCHINEN IN EINER INDUSTRIELLEN ANLAGE

Title (fr)  
DISPOSITIF ET SYSTÈME COMPRENANT DE MULTIPLES DISPOSITIFS DE SUPERVISION ET DE COMMANDE DE MACHINES DANS UNE INSTALLATION INDUSTRIELLE

Publication  
**EP 3590013 A1 20200108 (EN)**

Application  
**EP 18707382 A 20180301**

Priority  
• EP 17382107 A 20170301  
• EP 2018055115 W 20180301

Abstract (en)  
[origin: EP3370125A1] A system for supervising operation of at least one machine of an industrial installation or for supervising such operation and actuating the at least one machine based on such supervision, is disclosed. The system comprises a network comprising a server and a plurality of devices forming a computing cluster. At least some devices of the plurality of devices are connectable to a machine of the industrial installation. Each device of the at least some devices comprises: a first processor configured to compute in real-time, with data acquirable from the machine to which the device is connectable, a first processing task for solving a first query; and a second processor configured to share its processing power with the network, and to compute, when assigned by the server, at least one thread of a second processing task for solving a second query. The server is configured to: control the computing cluster; partition the second processing task into a plurality of threads; and assign one or more threads of the plurality of threads to the second processor of at least some devices of the plurality of devices. A device for supervising operation of at least one machine of an industrial installation is also disclosed. An industrial installation is also disclosed, comprising: a plurality of machines; and a network for supervising operation of at least one machine of the plurality of machines or for supervising and actuating the at least one machine, the network comprising a server and a plurality of devices forming a computing cluster.

IPC 8 full level  
**G05B 19/042** (2006.01)

CPC (source: EP GB KR)  
**G05B 19/0421** (2013.01 - GB KR); **G05B 19/0426** (2013.01 - EP); **G05B 23/02** (2013.01 - KR); **G05B 23/0216** (2013.01 - EP); **G05B 2219/25229** (2013.01 - EP GB KR); **Y02P 80/10** (2015.11 - EP); **Y02P 90/80** (2015.11 - EP GB KR)

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)  
**EP 3370125 A1 20180905**; BR 112019018116 A2 20200407; CA 3054637 A1 20180907; CN 109313423 A 20190205; CN 109313423 B 20221014; DE 112018001085 T5 20191114; EP 3590013 A1 20200108; GB 201912333 D0 20191009; GB 2573962 A 20191120; GB 2573962 B 20220504; JP 2020502596 A 20200123; JP 2021015614 A 20210212; JP 6983805 B2 20211217; JP 7125457 B2 20220824; KR 102599872 B1 20231107; KR 20190122125 A 20191029; SG 11201809889P A 20181228; WO 2018158404 A1 20180907

DOCDB simple family (application)  
**EP 17382107 A 20170301**; BR 112019018116 A 20180301; CA 3054637 A 20180301; CN 201880001536 A 20180301; DE 112018001085 T 20180301; EP 18707382 A 20180301; EP 2018055115 W 20180301; GB 201912333 A 20180301; JP 2018552045 A 20180301; JP 2020170537 A 20201008; KR 20187031484 A 20180301; SG 11201809889P A 20180301