

Title (en)

APPARATUS AND METHODS FOR SYNCHRONIZING A CONTROLLER AND SENSORS

Title (de)

VORRICHTUNGEN UND VERFAHREN ZUR SYNCHRONISIERUNG EINES CONTROLLERS UND SENSOREN

Title (fr)

DISPOSITIVES EN PROCÉDÉS DE SYNCHRONISATION D'UN CONTRÔLEUR ET DES CAPTEURS

Publication

EP 3365746 A2 20180829 (EN)

Application

EP 16790505 A 20161021

Priority

- US 201562245914 P 20151023
- US 201562245917 P 20151023
- US 201562245922 P 20151023
- US 201562245924 P 20151023
- US 201615251757 A 20160830
- US 201615299408 A 20161020
- US 2016058289 W 20161021

Abstract (en)

[origin: WO2017070593A2] Disclosed are methods and apparatus for synchronizing a controller and sensors in a system. A timestamp is provided in a host controller of an interface event on an interface coupled with host controller through detecting a message from a sensor on the interface that identifies the issuance of the interface event caused by the sensor at a first time. In response, the controller issues first and second events on the interface at respective second and third times, while concurrently counting cycles of a clock in the controller after each issuance. The controller also receives a first and second sensor counts representing the internal sensor clock times noted for the first and second events. The controller may then accurately calculate the timestamp of the interface event corresponding to the first time based on both internal controller counts and the sensor counts without needing a timestamp from the sensor directly.

IPC 8 full level

G06F 1/12 (2006.01); **H04J 3/06** (2006.01); **H04Q 9/00** (2006.01)

CPC (source: EP KR)

G04G 7/00 (2013.01 - EP); **G04G 21/02** (2013.01 - EP); **G06F 1/12** (2013.01 - EP KR); **H04J 3/0685** (2013.01 - EP KR); **H04Q 9/00** (2013.01 - EP); **G08C 2201/20** (2013.01 - EP KR)

Citation (search report)

See references of WO 2017070593A2

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 2017070593 A2 20170427; **WO 2017070593 A3 20170706**; BR 112018008256 A2 20181023; CA 2999773 A1 20170427; CN 108351670 A 20180731; EP 3365746 A2 20180829; JP 2018534686 A 20181122; KR 20180074684 A 20180703

DOCDB simple family (application)

US 2016058289 W 20161021; BR 112018008256 A 20161021; CA 2999773 A 20161021; CN 201680061541 A 20161021; EP 16790505 A 20161021; JP 2018519872 A 20161021; KR 20187011320 A 20161021