

Title (en)  
MOTION CONTROLLER AND ROBOT CONTROL SYSTEM USING THE SAME

Title (de)  
BEWEGUNGSSTEUERUNG UND ROBOTERSTEUERUNGSSYSTEM DAMIT

Title (fr)  
CONTRÔLEUR D'EXÉCUTION ET SYSTÈME DE COMMANDE DE ROBOT UTILISANT CE CONTRÔLEUR D'EXÉCUTION

Publication  
**EP 2946253 A1 20151125 (EN)**

Application  
**EP 13871913 A 20130117**

Priority  
CN 2013070581 W 20130117

Abstract (en)  
[origin: WO2014110748A1] A motion controller and a robot control system using the same are provided. The motion controller (2) includes: an information sharing means (21), being adapted for sharing data representing at least one piece of information; a plurality of function modules (204, 205, 206, 207), being adapted for exchanging the information between at least two of them by accessing the data through the information sharing means (21) and respectively carrying out a plurality of functions in parallel based on the exchanged information; wherein: the function module receiving the exchanged information is adapted to carry out the function based on the received exchanged information independently of the functions that are simultaneously carried out by the other function modules (204, 205, 206, 207); the plurality of function modules (204, 205, 206, 207) share at least one processor or programmable logic (20) having a multiple of computing units (200, 201, 202, 203); and the plurality of function modules (204, 205, 206, 207) are respectively implemented by means of the computing units (200, 201, 202, 203) of the processor or on the programmable logic (20). This causes at least one of the disadvantages as below: a relatively low degree of real-time behavior of the motion controller due to lack of parallel processing of data; a relatively high degree of difficulty in integration of new program instructions in the processor of the motion controller; the computing power of the processor of the motion controller is fixed and is not scalable; and the computing power of the processor of the motion controller cannot be used to its maximum.

IPC 8 full level  
**B25J 9/16** (2006.01); **G05B 19/414** (2006.01)

CPC (source: CN EP)  
**B25J 9/161** (2013.01 - EP); **G05B 19/414** (2013.01 - CN); **G05B 19/4148** (2013.01 - EP); **G05B 2219/33076** (2013.01 - EP); **G05B 2219/33104** (2013.01 - EP); **G05B 2219/33116** (2013.01 - EP); **G05B 2219/34208** (2013.01 - EP); **G05B 2219/34287** (2013.01 - EP); **G05B 2219/34403** (2013.01 - EP); **G05B 2219/40498** (2013.01 - EP)

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 2014110748 A1 20140724**; CN 104903800 A 20150909; EP 2946253 A1 20151125; EP 2946253 A4 20161012

DOCDB simple family (application)  
**CN 2013070581 W 20130117**; CN 201380069454 A 20130117; EP 13871913 A 20130117