

Title (en)

METHOD AND SYSTEM FOR PREDICTING MATERIAL STRUCTURE

Title (de)

VERFAHREN UND SYSTEM ZUR VORHERSAGE VON MATERIALSTRUKTUREN

Title (fr)

PROCÉDÉ ET SYSTÈME DE PRÉDICTION DE STRUCTURE DE MATÉRIAU

Publication

EP 2891092 A2 20150708 (EN)

Application

EP 13783407 A 20130902

Priority

- JP 2012192525 A 20120831
- JP 2013074166 W 20130902

Abstract (en)

[origin: WO2014034964A2] According to one embodiment, a material structure prediction method of predicting a material structure which causes phase transformation from a parent phase to a new phase by nucleation resulting from a temperature change of a material is disclosed. The method can prearrange nucleation candidate nuclei in the material. The method can determine whether the nucleation has occurred in each of the prearranged nucleation candidate nuclei. In addition, the method can calculate time evolution of a structure of the new phase by regarding, as the new phase, the nucleation candidate nucleus for which it is determined that the nucleation has occurred.

IPC 8 full level

G06F 19/00 (2011.01)

CPC (source: EP)

G16C 20/30 (2019.01); **G16C 20/10** (2019.01)

Citation (search report)

See references of WO 2014034964A2

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 2014034964 A2 20140306; WO 2014034964 A3 20140619; CN 104603785 A 20150506; CN 104603785 B 20170818; EP 2891092 A2 20150708; IN 1798DEN2015 A 20150529; JP 2014048208 A 20140317; JP 5749233 B2 20150715

DOCDB simple family (application)

JP 2013074166 W 20130902; CN 201380045311 A 20130902; EP 13783407 A 20130902; IN 1798DEN2015 A 20150304; JP 2012192525 A 20120831