

Title (en)  
METHOD FOR CARRYING OUT A CONSTRUCTION PROCESS WHEN ERECTING A BUILDING USING AT LEAST ONE CONSTRUCTION ROBOT

Title (de)  
VERFAHREN ZUR DURCHFÜHRUNG EINES BAUPROZESSES BEI DER ERRICHTUNG EINES BAUWERKS MIT EINSATZ MINDESTENS EINES BAUROBOTERS

Title (fr)  
PROCÉDÉ D'EXÉCUTION D'UN PROCESSUS DE CONSTRUCTION LORS DE L'ÉRECTION D'UN OUVRAGE DE CONSTRUCTION À L'AIDE D'AU MOINS UN ROBOT CONSTRUCTEUR

Publication  
**EP 4185754 B1 20231122 (DE)**

Application  
**EP 21748594 A 20210721**

Priority  
• DE 102020209308 A 20200723  
• EP 2021070389 W 20210721

Abstract (en)  
[origin: WO2022018137A1] The method involves an electronic evaluation and control unit being used to store a digital blueprint or a digital construction object model containing nominal dimensions and dimensional tolerances of the respective construction object, and, therein, at least those external dimensions of workpieces that are relevant to the respective construction object. At least one sensor is used to determine the current actual dimensions of the respective construction project and to supply them to the electronic evaluation and control unit. A construction robot is used to search for a workpiece that is to be used subsequently. After this workpiece has been found, the external dimensions of the workpiece that are relevant to the construction process are determined and are used to calculate dimensional deviations, and these are used to decide whether the respective workpiece is laid and/or installed at a position corresponding to the construction project model or is prepared to begin with such that its external dimensions after being laid and/or placed at the respective position are within dimensional tolerances.

IPC 8 full level  
**E04F 21/00** (2006.01); **G06Q 50/08** (2012.01)

CPC (source: EP)  
**E04F 21/00** (2013.01); **G06Q 50/08** (2013.01)

Citation (examination)  
• US 2020242799 A1 20200730 - HUH DAE YOUNG [US]  
• US 2020024849 A1 20200123 - BLUMER BENJAMIN AARON [CA], et al  
• DE 102018200221 A1 20190711 - BOSCH GMBH ROBERT [DE]  
• US 2018283015 A1 20181004 - TELLERIA MARIA J [US], et al

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DOCDB simple family (publication)  
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