

Title (en)  
APPARATUS AND METHOD FOR CLASSIFYING MATERIAL OBJECTS

Title (de)  
VORRICHTUNG UND VERFAHREN ZUM KLASSIFIZIEREN VON MATERIALOBJEKTEN

Title (fr)  
APPAREIL ET PROCÉDÉ DE CLASSIFICATION D'OBJETS MATÉRIELS

Publication  
**EP 4194107 A1 20230614 (EN)**

Application  
**EP 22152672 A 20220121**

Priority  
EP 21213912 A 20211210

Abstract (en)  
The application concerns an apparatus and a method for classifying material objects. The apparatus comprises a deep learning model. The apparatus is configured to, in an initialization phase, subject the deep learning model to supervised learning based on a training data obtained from, for each of a training set of material objects, a pairs of sensor data obtained by a measurement of the respective material object and label information associating the respective material object with a target classification. Additionally, the apparatus is configured to, using the deep learning model, classify a predetermined material object based on sensor data obtained by a measurement of the predetermined material object.

IPC 8 full level  
**B07C 5/34** (2006.01)

CPC (source: EP)  
**B07C 5/3416** (2013.01)

Citation (applicant)

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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)  
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