

Title (en)  
SYSTEMS AND METHODS FOR POSE DETERMINATION

Title (de)  
SYSTEME UND VERFAHREN ZUR HALTUNGSBESTIMMUNG

Title (fr)  
SYSTÈMES ET PROCÉDÉS DE DÉTERMINATION DE POSES

Publication  
**EP 4153940 A4 20240117 (EN)**

Application  
**EP 20944546 A 20201230**

Priority  
• CN 202010655087 A 20200709  
• CN 202010963179 A 20200914  
• CN 2020141652 W 20201230

Abstract (en)  
[origin: WO2022007367A1] Systems (100) and methods for pose determination. The system (100) may obtain an initial pose of a moving device (110)(510). The system (100) may also determine a plurality of candidate poses of the moving device(110) based on the initial pose of the moving device(110) according to at least one map associated with the moving device(110) (520). The system(100) may determine a target initial pose of the moving device(110) based on the plurality of candidate poses and laser data acquired by the moving device(110) (530).

IPC 8 full level  
**G06T 7/73** (2017.01); **B25J 13/08** (2006.01); **G01C 21/00** (2006.01); **G06F 16/29** (2019.01); **G06V 30/19** (2022.01)

CPC (source: EP KR)  
**B25J 13/089** (2013.01 - EP KR); **G06T 7/74** (2016.12 - EP KR); **G06V 10/761** (2022.01 - KR); **G06V 30/19067** (2022.01 - EP KR);  
**G06T 2207/30244** (2013.01 - EP)

Citation (search report)  
• [X] CN 111060135 A 20200424 - YIJIAHE TECH CO LTD & "CN111060135A -MAP CORRECTION METHOD AND SYSTEM BASED ON LOCAL MAP", 30 November 2023, article HUAN LIN: "CN111060135A -MAP CORRECTION METHOD AND SYSTEM BASED ON LOCAL MAP", pages: 1 - 8, XP093107836  
• [X] CN 109141437 A 20190104 - HEFEI INST PHYSICAL SCI CAS & "CN109141437A -ROBOT GLOBAL REPOSITIONING METHOD", 30 November 2023, article YANG JIZHOU: "CN109141437A -ROBOT GLOBAL REPOSITIONING METHOD", pages: 1 - 5, XP093107839  
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• [A] CHAN SHAO-HUNG ET AL: "Robust 2D Indoor Localization Through Laser SLAM and Visual SLAM Fusion", 2018 IEEE INTERNATIONAL CONFERENCE ON SYSTEMS, MAN, AND CYBERNETICS (SMC), IEEE, 7 October 2018 (2018-10-07), pages 1263 - 1268, XP033502825, DOI: 10.1109/SMC.2018.00221  
• See references of WO 2022007367A1

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

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**WO 2022007367 A1 20220113**; EP 4153940 A1 20230329; EP 4153940 A4 20240117; KR 20230029981 A 20230303

DOCDB simple family (application)  
**CN 2020141652 W 20201230**; EP 20944546 A 20201230; KR 20237003646 A 20201230