

Title (en)

REALTIME INVENTORY TRACKING USING DEEP LEARNING

Title (de)

ECHTZEIT-INVENTARVERFOLGUNG UNTER VERWENDUNG VON TIEFENLERNEN

Title (fr)

SUIVI D'INVENTAIRE EN TEMPS RÉEL À L'AIDE DE L'APPRENTISSAGE PROFOND

Publication

EP 3827392 A4 20220330 (EN)

Application

EP 19841054 A 20190725

Priority

- US 201862703785 P 20180726
- US 201916256904 A 20190124
- US 2019043519 W 20190725

Abstract (en)

[origin: WO2020023795A1] Systems and techniques are provided for tracking inventory items in an area of real space including inventory display structures. A plurality of cameras are disposed above the inventory display structures. The cameras in the plurality of cameras produce respective sequences of images in corresponding fields of view in the real space. A memory stores a map of the area of real space identifying inventory locations on inventory display structures. The system is coupled to a plurality of cameras and uses the sequences of images produced by at least two cameras in the plurality of cameras to find a location of an inventory event in three dimensions in the area of real space. The system matches the location of the inventory event with an inventory location.

IPC 8 full level

G06Q 10/08 (2012.01); **G06K 9/00** (2022.01); **G06N 3/04** (2006.01); **G06N 3/08** (2006.01); **G06N 5/00** (2006.01); **G06Q 30/06** (2012.01); **G06T 7/20** (2017.01); **G06T 7/70** (2017.01); **G06V 20/52** (2022.01)

CPC (source: EP)

G06F 18/24133 (2023.01); **G06N 3/045** (2023.01); **G06Q 10/087** (2013.01); **G06Q 30/06** (2013.01); **G06V 10/82** (2022.01); **G06V 20/52** (2022.01); **G06N 3/08** (2013.01); **G06N 5/01** (2023.01); **G06V 20/68** (2022.01)

Citation (search report)

- [I] US 2015029339 A1 20150129 - KOBRES ERICK CHRISTIAN [US], et al
- [I] US 2017323376 A1 20171109 - GLASER WILLIAM [US], et al
- [A] US 2018165733 A1 20180614 - KUNDU MALAY [US], et al
- See references of WO 2020023795A1

Designated contracting state (EPC)

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