

Title (en)
MACHINE LEARNING FOR HOME UNDERSTANDING AND NOTIFICATION

Title (de)
MASCHINENLERNEN FÜR HAUSHALTSVERSTÄNDNIS UND -BENACHRICHTIGUNG

Title (fr)
APPRENTISSAGE AUTOMATIQUE DESTINÉ À UNE COMPRÉHENSION ET UNE NOTIFICATION DOMESTIQUES

Publication
EP 3794504 A4 20210804 (EN)

Application
EP 19803820 A 20190520

Priority

- US 201862673548 P 20180518
- US 201862673523 P 20180518
- US 201862673498 P 20180518
- US 2019033058 W 20190520

Abstract (en)
[origin: WO2019222725A1] Methods, systems, and apparatus, including computer programs encoded on a computer storage medium, for machine learning for home understanding and notification. In one aspect, a method includes obtaining reference videos from a camera within a premises of a home, determining, from the reference videos, timing of actions in a routine that a particular person performs before leaving the home, determining from a sample video from the camera within the home that the particular person appears to be out of sync in performing a particular action based on the timing of actions in the routine determined from the reference videos, and in response, providing a notification to the particular person.

IPC 8 full level
G06K 9/20 (2006.01); **G06K 9/00** (2006.01); **G06K 9/62** (2006.01); **G06K 9/64** (2006.01); **G06K 9/78** (2006.01); **G06Q 10/06** (2012.01); **H04L 12/28** (2006.01)

CPC (source: EP US)
G06Q 10/063116 (2013.01 - EP US); **G06Q 10/06316** (2013.01 - EP); **H04L 12/2829** (2013.01 - EP); **G06F 18/23213** (2023.01 - EP); **G06F 18/24143** (2023.01 - EP); **G06V 20/52** (2022.01 - EP US); **G06V 40/172** (2022.01 - EP US); **G06V 40/20** (2022.01 - EP US)

Citation (search report)

- [I] US 9942056 B2 20180410 - LIN RONGBIN LANNY [US], et al
- [A] SHIAN-RU KE ET AL: "A Review on Video-Based Human Activity Recognition", COMPUTERS, vol. 2, no. 2, 5 June 2013 (2013-06-05), pages 88 - 131, XP055490051, DOI: 10.3390/computers2020088
- [A] BABIKER MOHANAD ET AL: "Automated daily human activity recognition for video surveillance using neural network", 2017 IEEE 4TH INTERNATIONAL CONFERENCE ON SMART INSTRUMENTATION, MEASUREMENT AND APPLICATION (ICSIMA), IEEE, 28 November 2017 (2017-11-28), pages 1 - 5, XP033328957, DOI: 10.1109/ICSIMA.2017.8312024
- See references of WO 2019222725A1

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 2019222725 A1 20191121; AU 2019270256 A1 20201203; CA 3100879 A1 20191121; EP 3794504 A1 20210324; EP 3794504 A4 20210804

DOCDB simple family (application)
US 2019033058 W 20190520; AU 2019270256 A 20190520; CA 3100879 A 20190520; EP 19803820 A 20190520