

Title (en)

HARDWARE AND SYSTEM OF BOUNDING BOX GENERATION FOR IMAGE PROCESSING PIPELINE

Title (de)

HARDWARE UND SYSTEM ZUR ERSTELLUNG EINES BEGRENZUNGSRECHTECKS FÜR EINE BILDVERARBEITUNGSPipeline

Title (fr)

MATÉRIEL ET SYSTÈME DE GÉNÉRATION DE RECTANGLE ENGLOBANT POUR PIPELINE DE TRAITEMENT D'IMAGE

Publication

EP 3782114 A4 20220105 (EN)

Application

EP 19788663 A 20190214

Priority

- US 201862659129 P 20180417
- US 2019018049 W 20190214

Abstract (en)

[origin: WO2019203920A1] Described is a system for bounding box generation. The system operates on an image comprised of pixels having a one-bit value per pixel. Bounding boxes are generated around connected components in the image, the connected components having pixel coordinate and pixel count information. A ranking score is generated for each bounding box based on the pixel coordinate and pixel count information. The bounding boxes are filtered to remove bounding boxes that exceed a predetermined size and pixel count based on the pixel coordinate and pixel count information. The bounding boxes are further filtered to remove bounding boxes that fall below a predetermined ranking score, resulting in remaining bounding boxes. Finally, a device can be controlled or otherwise operated based on the remaining bounding boxes.

IPC 8 full level

G06F 15/76 (2006.01); **G06T 1/20** (2006.01); **G06T 1/60** (2006.01)

CPC (source: EP)

G06T 7/20 (2013.01); **G06T 2207/30232** (2013.01)

Citation (search report)

- [X] US 2009245640 A1 20091001 - LI JILIN [CN], et al
- [X] US 2012206567 A1 20120816 - ZAFARIFAR BAHMAN [NL], et al
- [X] US 2017134631 A1 20170511 - ZHAO CONG [CN], et al
- See references of WO 2019203920A1

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

DOCDB simple family (publication)

WO 2019203920 A1 20191024; CN 111801703 A 20201020; EP 3782114 A1 20210224; EP 3782114 A4 20220105

DOCDB simple family (application)

US 2019018049 W 20190214; CN 201980016252 A 20190214; EP 19788663 A 20190214