Title (en)
METHOD FOR IMAGE ANALYSIS, ESPECIALLY FOR MOBILE STATIONS

Title (de)
VERFAHREN ZUR BILDANALYSE, INSBESONDERE FÜR MOBILFUNKGERÄT

Title (fr)
PROCÉDÉ D'ANALYSE D'IMAGE NOTAMMENT DESTINÉ À UN APPAREIL DE TÉLÉPHONIE MOBILE

Publication
EP 2208170 A1 20100721 (DE)

Application
EP 08848083 A 20081028

Priority
• EP 2008009093 W 20081028
• DE 102007052622 A 20071105

Abstract (en)
[origin: CA2704830A1] A robust OCR system requiring little computing capacity is obtained by first carrying out an adaptive pre-processing optimised in terms of pixel groups, which analyses the image in line segments. The most significant difference compared to previously known methods is that there is no longer a direct pattern comparison, instead the line segments are gone over in as optimum a manner as possible. The corresponding character is then deduced from the sequence of movements. As this sequence of movements can be scaled well and descibed in a relatively simple manner, this technique is especially suitable for mobile use. The sequence of movements of know characters is stored in a search word, such that the letters can be directly deduced from the movement. A dictionary/lexicon can also be used. If words are recognised by means of the dictionary/lexicon, the recognised letters can be used for an even more optimised character font identification. The invention is advantageous in that a robust OCR system is provided, which also requires little computing capacity. The system according to the invention is robust especially in that the recognition works better than with conventional systems even under bad conditions, especially light ratios and interferences.

IPC 8 full level
G06V 30/224 (2022.01); **G06F 40/00** (2020.01); G06V 30/10 (2022.01)

CPC (source: EP KR US)
G06V 30/18076 (2022.01 - EP KR US); G06V 30/10 (2022.01 - EP US)

Citation (search report)
See references of WO 2009059715A1

Citation (examination)
US 5581634 A 19961203 - HEIDE SCOTT S [US]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
DE 102007052622 A1 20090507; BR PI0820570 A2 20150616; CA 2704830 A1 20090514; CA 2704830 C 20140930; CN 101855640 A 20101006; CN 101855640 B 20131204; EP 2208170 A1 20100721; KR 101606469 B1 20160325; KR 20100099154 A 20100910; MX 2010004732 A 20100520; RU 2010122947 A 20111220; RU 2454718 C2 20120627; US 2010296729 A1 20101125; US 8532389 B2 20130910; WO 2009059715 A1 20090514

DOCDB simple family (application)
DE 102007052622 A 20071105; BR PI0820570 A 20081028; CA 2704830 A 20081028; CN 200880114728 A 20081028; EP 08848083 A 20081028; EP 2008009093 W 20081028; KR 20107012446 A 20081028; MX 2010004732 A 20081028; RU 2010122947 A 20081028; US 74004708 A 20081028