Title (en)

PAPER SHEET RECOGNITION APPARATUS AND PAPER SHEET RECOGNITION METHOD

Title (de)

PAPIERBLATTERKENNUNGSVORRICHTUNG UND PAPIERBLATTERKENNUNGSVERFAHREN

Title (fr)

APPAREIL DE RECONNAISSANCE DE FEUILLES DE PAPIER ET PROCÉDÉ DE RECONNAISSANCE DE FEUILLES DE PAPIER

Publication

EP 2355056 A1 20110810 (EN)

Application

EP 11152302 A 20110127

Priority

JP 2010019612 A 20100129

Abstract (en)

In a paper sheet recognition apparatus, a block setting unit (12a) divides a captured image of a paper sheet into pixel blocks of a predetermined number of pixels, a pixel statistics unit (12b) calculates statistics of a block value for each pixel block of a plurality of paper sheets, a valid area learning unit (12c) learns the pixel blocks valid for fitness determination as a valid area, a threshold value learning unit (12d) learns threshold values of the valid area, and a fitness determining unit (12e) performs fitness determination of the paper sheet based on threshold value information output by the threshold value learning unit (12d).

IPC 8 full level

G07D 7/00 (2016.01); **G07D 7/12** (2016.01); **G07D 7/187** (2016.01)

CPC (source: EP US)

G07D 7/121 (2013.01 - EP US); **G07D 7/181** (2017.05 - EP US); **G07D 7/187** (2013.01 - EP US)

Citation (applicant)
- JP H04199489 A 19920720 - TOSHIBA CORP
- JP 2587433 B2 19970305

Citation (search report)
- [I] GB 2164442 A 19860319 - DE LA RUE SYST
- [A] EP 0680909 A1 19951108 - GRAPHA HOLDING AG [CH]

Cited by

CN109074648A; AT520133A5; US10262200B2; WO2015124294A1

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)

EP 2355056 A1 20110810; **EP 2355056 B1 20180725**; JP 2011159073 A 20110818

DOCDB simple family (application)

EP 11152302 A 20110127; JP 2010019612 A 20100129