

Title (en)
METHOD FOR SCANNING LARGE-FORMAT SCAN TEMPLATES WITH AN AUTOMATIC DYNAMIC SCALE CORRECTION FUNCTION

Title (de)
VERFAHREN ZUM SCANNEN GROSSFORMATIGER SCAN-VORLAGEN MIT AUTOMATISCHER DYNAMISCHER MASSSTABSKORREKTUR

Title (fr)
PROCÉDÉ DE NUMÉRISATION DE DOCUMENTS DE GRAND FORMAT À NUMÉRISER AVEC CORRECTION AUTOMATIQUE ET DYNAMIQUE DE L'ÉCHELLE

Publication
EP 3097682 A1 20161130 (DE)

Application
EP 15700602 A 20150121

Priority
• DE 102014201035 A 20140121
• EP 2015051113 W 20150121

Abstract (en)
[origin: WO2015110459A1] The invention relates to a method for scanning large-format scan templates (4) with an automatic dynamic scale correction function during the scanning process by means of a scanner (1) which has image capturing elements (2) arranged in a cascading manner in order to scan the scan template (4), wherein image information of adjacent sensor elements (11 to 14) is assembled by means of a stitching method and shift values (Vn) are ascertained in said elements. The method has the following steps: S1: deriving shift values (V) for each image line of the assembled image by interpolating the y direction components of the n shift values (Vn), S2: comparing the shift values (V) with a target value (S) in order to determine a relative deviation for each image line and adding the relative deviations until the sum has reached a value which corresponds to the smallest possible error correction for scaling the image information, and S3: scaling the image information or image signals by taking on the value for the error correction.

IPC 8 full level
H04N 1/04 (2006.01); **H04N 1/19** (2006.01); **H04N 1/193** (2006.01)

CPC (source: EP US)
H04N 1/04 (2013.01 - EP US); **H04N 1/1903** (2013.01 - EP US); **H04N 1/1933** (2013.01 - EP US); **H04N 1/393** (2013.01 - US)

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)
DE 102014201035 A1 20150723; CN 106170974 A 20161130; CN 106170974 B 20190920; EP 3097682 A1 20161130; JP 2017504271 A 20170202; US 2016323479 A1 20161103; WO 2015110459 A1 20150730

DOCDB simple family (application)
DE 102014201035 A 20140121; CN 201580005292 A 20150121; EP 15700602 A 20150121; EP 2015051113 W 20150121; JP 2016547914 A 20150121; US 201515109189 A 20150121