Title (en)

METHOD AND SYSTEM FOR THE OPTICAL INSPECTION OF A PERIODIC STRUCTURE

Title (de)

VERFAHREN UND SYSTEM ZUR OPTISCHEN INSPEKTION EINER PERIODISCHEN STRUKTUR

Title (fr)

PROCEDE ET SYSTEME DESTINES A L'INSPECTION OPTIQUE D'UNE STRUCTURE PERIODIQUE

Publication

EP 1979875 A2 20081015 (DE)

Application

EP 06841039 A 20061219

Priority

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- DE 102006000946 A 20060107

Abstract (en)

[origin: US2009129682A1] Disclosed are a method and a system for inspecting a periodic structure (1) by means of an optical image recorder which is provided with a pixel structure (2) and whose recorded image (6) is compared to a faultless reference image (4) of the periodic structure (1). In order to be able to reliably detect faults with simple means, the phase angle (phase X, phase Y) of the periodic structure (1) relative to the pixel structure (2) of the optical image recorder is determined in at least one position (X, Y) of the reference image (4). The recorded image (6) is subdivided into inspection areas (7), and the phase angle (phase X, phase Y) of the periodic structure (1) relative to the pixel structure (2) of the image recorder is determined for each inspection area (7). In order to compare an inspection area (7) to the reference image (4), a reference image area (8) is then selected whose phase angle (phase X, phase Y) corresponds to the inspection area (7).

IPC 8 full level

G06T 7/00 (2006.01)

CPC (source: EP KR US)

G01N 21/95607 (2013.01 - EP US); **G06T 7/00** (2013.01 - KR); **G06T 7/0002** (2013.01 - EP US); **G06T 7/0004** (2013.01 - EP US); **G06T 7/001** (2013.01 - EP US); **G06T 7/40** (2013.01 - KR); **G06V 10/435** (2022.01 - EP US); G01N 2021/9513 (2013.01 - EP US); G06T 2207/30121 (2013.01 - EP US)

Citation (search report)

See references of WO 2007079934A2

Citation (examination)

US 4805123 A 19890214 - SPECHT DONALD F [US], et al

Designated contracting state (EPC)

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US 16001606 A 20061219; CN 200680050442 A 20061219; DE 102006000946 A 20060107; EP 06841039 A 20061219; EP 2006012233 W 20061219; IL 19202008 A 20080605; JP 2008548942 A 20061219; KR 20087019382 A 20061219; TW 95148724 A 20061225