

Title (en)  
GENERATING REFERENCE IMAGES OF EMPTY WORKPIECE SUPPORTS

Title (de)  
REFERENZAUFGNAHMENERSTELLUNG LEERER WERKSTÜCKTRÄGER

Title (fr)  
GÉNÉRATION D'IMAGES DE RÉFÉRENCE DE SUPPORTS DE PIÈCE VIDES

Publication  
**EP 4256464 A1 20231011 (DE)**

Application  
**EP 21824315 A 20211130**

Priority  
• DE 102020215227 A 20201202  
• EP 2021083619 W 20211130

Abstract (en)  
[origin: WO2022117581A1] The invention relates to a method for storing a current reference image of an unloaded workpiece support (16). In the process, a step A) is first carried out of generating an image of the workpiece support (16); in a step B), the image is evaluated by an algorithm (26); and in a step C), the image is stored as a reference image if the algorithm (26) classifies the workpiece support (16) as being empty. In order to evaluate the workpiece support (16), the algorithm (26) can have a maximally stable extremal regions algorithm, an algorithm for detecting webs (40) of the workpiece support (16), and/or a neural network. The invention additionally relates to a device (10) for carrying out such a method.

CPC (source: EP US)  
**G06T 7/001** (2013.01 - US); **G06T 7/12** (2017.01 - US); **G06T 7/194** (2017.01 - US); **G06V 10/25** (2022.01 - EP); **G06V 10/82** (2022.01 - US); **G06T 2207/30136** (2013.01 - US); **G06T 2207/30164** (2013.01 - US); **G06V 2201/06** (2022.01 - EP 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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**WO 2022117581 A1 20220609**; CN 116569222 A 20230808; DE 102020215227 A1 20220602; DE 102020215227 B4 20231109; EP 4256464 A1 20231011; JP 2023545282 A 20231027; JP 7535184 B2 20240815; US 2023298161 A1 20230921

DOCDB simple family (application)  
**EP 2021083619 W 20211130**; CN 202180072047 A 20211130; DE 102020215227 A 20201202; EP 21824315 A 20211130; JP 2023521768 A 20211130; US 202318322608 A 20230524