

Title (en)

MULTI-VIEW IMAGING SYSTEM AND METHODS FOR NON-INVASIVE INSPECTION IN FOOD PROCESSING

Title (de)

ABBILDUNGSSYSTEM MIT MEHREREN ANSICHTEN UND VERFAHREN ZUR NICHT-INVASIVEN INSPEKTION BEI DER LEBENSMITTELVERARBEITUNG

Title (fr)

SYSTÈME D'IMAGERIE À VUES MULTIPLES ET PROCÉDÉS D'INSPECTION NON INVASIVE DANS LE TRAITEMENT D'ALIMENTS

Publication

**EP 3837533 A1 20210623 (EN)**

Application

**EP 18830699 A 20181218**

Priority

- US 201862765113 P 20180816
- US 2018066314 W 20181218

Abstract (en)

[origin: WO2020036620A1] An inline vision-based system (400) used for the inspection and processing of food material (408) and associated imaging methods are disclosed. The system includes a conveyor belt (402), a transparent plate (412), and an imaging system (422), wherein the imaging system includes a light source (424) and at least one camera. The imaging system produces image data from multiple views of light passing through an object on the transparent plate and captured by the camera. The image data corresponds to one of transmittance, interactance, or reflectance image data and is transmitted to a processor (428). The processor processes the data using machine learning to generate a three dimensional model of the geometry of a portion of material internal to the object so as to determine boundaries of the portion relative to the surrounding material.

IPC 8 full level

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CPC (source: EP KR)

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Citation (search report)

See references of WO 2020036620A1

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

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BA ME

DOCDB simple family (publication)

**WO 2020036620 A1 20200220**; CN 113167740 A 20210723; EC SP21013708 A 20210429; EP 3837533 A1 20210623; JP 2021535367 A 20211216; JP 7324271 B2 20230809; KR 20210041055 A 20210414; MX 2021001799 A 20210615; PH 12021550342 A1 20211004

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**US 2018066314 W 20181218**; CN 201880098276 A 20181218; EC DI202113708 A 20210226; EP 18830699 A 20181218; JP 2021507475 A 20181218; KR 20217007033 A 20181218; MX 2021001799 A 20181218; PH 12021550342 A 20210216