

Title (en)

WEED DETECTION AND/OR DESTRUCTION

Title (de)

DETEKTION UND/ODER VERNICHTUNG VON UNKRAUT

Title (fr)

DÉTECTION ET/OU DESTRUCTION DES PLANTES NUISIBLES

Publication

**EP 2327039 A1 20110601 (EN)**

Application

**EP 09765883 A 20090618**

Priority

- EP 2009057588 W 20090618
- EP 08011245 A 20080620
- EP 09765883 A 20090618

Abstract (en)

[origin: WO2009153304A1] A method of determining the position of weeds growing in soil amongst crops comprising the steps of: Using a camera to acquiring a stereoscopic image of plants growing on soil; Segmenting plant pixels and soil pixels; Creating a modelised height profile of the soil at positions at which soil pixels have not been captured by the stereoscopic image based on information derived from adjacent soil pixels Determining a corrected plant height at plant pixels representing the distance between the plant pixel and the modelised soil underneath; and Differentiating between weeds and crops by comparing the corrected plant height with an expected crop height. Once the position of a weed has been determined, it may be destroyed, for example by heat applied to the identified position or by a robotic arm.

IPC 8 full level

**G06K 9/00** (2006.01); **H04N 13/00** (2006.01)

CPC (source: EP)

**G06T 7/521** (2016.12); **G06V 20/10** (2022.01); **A01B 39/18** (2013.01); **G06T 2207/30188** (2013.01); **H04N 13/254** (2018.04); **H04N 2013/0081** (2013.01)

Citation (search report)

See references of WO 2009153304A1

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Designated extension state (EPC)

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DOCDB simple family (publication)

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