Title (en)
MACHINE VISION SYSTEM FOR FROZEN ALIQUOTTER FOR BIOLOGICAL SAMPLES

Title (de)
MASCHINENSICHTSYSTEM FÜR GEFRORENE ALIQUOTTER FÜR BIOLOGISCHE PROBEN

Title (fr)
SYSTÈME DE VISION ARTIFICIELLE POUR ALIQUOTE CONGELÉE POUR ÉCHANTILLONS BIOLOGIQUES

Publication
EP 2845013 A2 20150311 (EN)

Application
EP 13724056 A 20130430

Priority
- US 201261640662 P 20120430
- US 201213489234 A 20120605
- US 201313844156 A 20130315
- US 2013038880 W 20130430

Abstract (en)
[origin: WO2013166022A2] A machine vision system for use with a system that takes frozen sample cores from samples that are in containers includes a camera. A processor is configured to receive image data from the camera and to determine locations where frozen sample cores have already been taken. A method of determining one or more locations where a frozen sample core have already been taken from frozen samples includes operating a robotic system to position one of the containers on a platform at a station for receiving the container while a frozen sample core is extracted from the frozen sample contained in the container. The camera is used to capture an image of the frozen sample. Contrast in the captured image is evaluated to identify one or more bore candidates. The processor uses the image to determine whether or not the bore candidates are real bores or artifacts.

IPC 8 full level
G01N 1/28 (2006.01); **G01N 35/00** (2006.01)

CPC (source: EP)
G01N 1/286 (2013.01); **G01N 35/00732** (2013.01); **G01N 35/0099** (2013.01); G01N 2035/0091 (2013.01)

Citation (search report)
See references of WO 2013166022A2

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)
WO 2013166022 A2 20131107; **WO 2013166022 A3 20140313**; AU 2013256489 A1 20141030; BR 112014026936 A2 20170627; CA 2870505 A1 20131107; CN 104428678 A 20150318; EP 2845013 A2 20150311; JP 2015516077 A 20150604; JP 6108572 B2 20170405

DOCDB simple family (application)
US 2013038880 W 20130430; AU 2013256489 A 20130430; BR 112014026936 A 20130430; CA 2870505 A 20130430; CN 201380022571 A 20130430; EP 13724056 A 20130430; JP 2015510387 A 20130430