Title (en)
   DEVICE FOR DETECTING SOLIDS

Title (de)
   VORRICHTUNG ZUR DETEKTION VON FESTSTOFFEN

Title (fr)
   DISPOSITIF POUR DÉTECTER DES SOLIDES

Publication
   EP 2697620 A1 20140219 (DE)

Application
   EP 12725298 A 20120405

Priority
   • DE 102011002097 A 20110415
   • DE 2012100095 W 20120405

Abstract (en)
   [origin: CA2832239A1] Secure areas, such as at airports or other security-critical facilities, are entered from freely accessible areas, often by means of access locks. This bottleneck, which is present in any case, is used to check for substances of concern, such as drugs or explosive materials. In the case of solids, as is known, particles extracted from the access lock and retained in a screen are vaporized and the vapor is examined. Several of said screens are arranged on rotatable carrying disks and undergo consecutively the steps of vaporization and analysis. The aim of the invention is to make known methods more efficient in order to increase the throughput through such access locks. Said aim is achieved by a device for which available heating and extraction elements are assigned to multiple rotational positions of the carrying disks, whereby adjacent rotational positions lie apart from each other by only half the distance of two screens.

IPC 8 full level
   G01N 1/22 (2006.01); **G01N 27/626** (2021.01)

CPC (source: EP RU US)
   G01N 1/22 (2013.01 - RU); **G01N 1/2214** (2013.01 - EP US); **G01N 15/00** (2013.01 - US); **G01N 27/62** (2013.01 - RU);
   G01N 30/04 (2013.01 - RU); **G01N 33/22** (2013.01 - RU); G01N 2001/002 (2013.01 - US); G01N 2001/024 (2013.01 - EP US);
   G01N 2015/0019 (2013.01 - US)

Citation (search report)
   See references of WO 2012139564A1

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

DOCDB simple family (publication)
   DE 102011002097 B3 20120802; AU 2012242333 A1 20131024; AU 2012242333 B2 20150820; CA 2832239 A1 20121018;
   CA 2832239 C 20170321; CN 103547904 A 20140129; CN 103547904 B 20170714; EP 2697620 A1 20140219; JP 2014510927 A 20140501;
   JP 6012707 B2 20161025; RU 2013150807 A 20150520; RU 2601469 C2 20161110; SG 194444 A1 20131230; US 2014102174 A1 20140417;
   US 9377381 B2 20160628; WO 2012139564 A1 20121018

DOCDB simple family (application)
   DE 102011002097 A 20110415; AU 2012242333 A 20120405; CA 2832239 A 20120405; CN 201280018668 A 20120405;
   DE 2012100095 W 20120405; EP 12725298 A 20120405; JP 2014504160 A 20120405; RU 2013150807 A 20120405;
   SG 2013075254 A 20120405; US 201214111273 A 20120405