

Title (en)
METHOD AND ARRANGEMENT FOR ANALYSIS OF A MATERIAL FLOW

Title (de)
VERFAHREN UND ANORDNUNG ZUR ANALYSE EINES STOFFSTROMS

Title (fr)
PROCÉDÉ ET DISPOSITIF D'ANALYSE D'UN FLUX DE MATIÈRE

Publication
EP 3254098 A1 20171213 (DE)

Application
EP 15831128 A 20151125

Priority
• DE 102015101537 A 20150203
• DE 2015100504 W 20151125

Abstract (en)
[origin: WO2016124165A1] The invention relates to a method and to an arrangement for analysis of a material flow (S) which consists of one or more material components. The material flow (S) is conducted via a conveyor line. One or more acoustic sensors (6-11) are allocated to the conveyor line. Acoustic signals produced by the material flow (S) are detected by the acoustic sensor(s) (6-11) and then converted into digital signals. The digital signals are analyzed in an evaluating unit in a computer-assisted manner and analyzed by means of an algorithm in comparison to reference values specified based on individual identifying characteristics of the material components, such that the material components are identified and the mass fraction of at least one material component in the material flow (S) is determined.

IPC 8 full level
G01N 29/04 (2006.01); **G01N 29/14** (2006.01); **G01N 29/44** (2006.01)

CPC (source: EP US)
G01F 1/666 (2013.01 - US); **G01N 29/046** (2013.01 - EP US); **G01N 29/14** (2013.01 - EP US); **G01N 29/4427** (2013.01 - EP US);
G01N 29/4436 (2013.01 - EP US); **G01N 2291/024** (2013.01 - 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

DOCDB simple family (publication)
DE 102015101537 A1 20160804; AU 2015381355 A1 20170817; EP 3254098 A1 20171213; US 2018017420 A1 20180118;
WO 2016124165 A1 20160811

DOCDB simple family (application)
DE 102015101537 A 20150203; AU 2015381355 A 20151125; DE 2015100504 W 20151125; EP 15831128 A 20151125;
US 201515548253 A 20151125