

Title (en)

METHOD AND APPARATUS FOR ANALYSING METAL POWDER

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ANALYSE VON METALLPULVER

Title (fr)

PROCÉDÉ ET APPAREIL POUR ANALYSER UNE POUDRE MÉTALLIQUE

Publication

EP 3969212 A1 20220323 (EN)

Application

EP 20729145 A 20200515

Priority

- GB 201906876 A 20190515
- GB 2020051187 W 20200515

Abstract (en)

[origin: WO2020229834A1] A method and apparatus for analysing a metal powder for use in an additive manufacturing process involving: providing the powder in a close packed state adjacent a barrier; illuminating a region of the powder through the barrier; separately detecting the illuminating radiation received back from different parts of the illuminated region of the powder through the barrier, to produce an output which depends on the detected radiation; and processing the output to determine one or more properties of the powder. The barrier may be a wall of a container or conduit. The apparatus may form part of powder transport or additive manufacturing apparatus.

IPC 8 full level

B22F 3/105 (2006.01); **B33Y 30/00** (2015.01); **B33Y 50/02** (2015.01); **G01N 15/06** (2006.01); **G01N 21/25** (2006.01); **G01N 21/47** (2006.01); **G01N 21/49** (2006.01); **G01N 21/51** (2006.01); **G01N 21/85** (2006.01)

CPC (source: EP GB US)

B22F 10/30 (2021.01 - EP GB US); **B22F 12/90** (2021.01 - EP GB US); **B33Y 30/00** (2014.12 - EP); **B33Y 50/00** (2014.12 - GB); **B33Y 50/02** (2014.12 - EP); **G01N 15/00** (2013.01 - GB); **G01N 15/06** (2013.01 - EP US); **G01N 21/27** (2013.01 - EP); **G01N 21/51** (2013.01 - EP GB); **G01N 21/85** (2013.01 - EP); **G01N 33/0091** (2024.05 - GB); **B22F 10/00** (2021.01 - GB); **B22F 10/28** (2021.01 - EP GB US); **B22F 10/73** (2021.01 - EP GB US); **G01N 15/0227** (2013.01 - GB); **G01N 15/075** (2024.01 - EP); **G01N 21/27** (2013.01 - GB); **G01N 21/85** (2013.01 - GB); **G01N 2015/0096** (2013.01 - GB); **G01N 2021/4769** (2013.01 - GB); **G01N 2021/8557** (2013.01 - EP); **G01N 2021/8592** (2013.01 - EP); **Y02P 10/25** (2015.11 - EP)

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 2020229834 A1 20201119; CA 3140550 A1 20201119; EP 3969212 A1 20220323; GB 201906876 D0 20190626; GB 2584083 A 20201125; GB 2584083 B 20230920; JP 2022532399 A 20220714

DOCDB simple family (application)

GB 2020051187 W 20200515; CA 3140550 A 20200515; EP 20729145 A 20200515; GB 201906876 A 20190515; JP 2021568301 A 20200515