

Title (en)

LASER MELTING ADDITIVE MANUFACTURING EQUIPMENT WITH ANTI-TURBULENCE SHIELDS

Title (de)

VORRICHTUNG ZUR GENERATIVEN LASERSCHMELZFERTIGUNG MIT ANTITURBULENZSCHILDEN

Title (fr)

OUTILLAGE DE FABRICATION ADDITIVE PAR FUSION LASER AVEC BOUCLIERES ANTI-TURBULENCES

Publication

EP 4021667 A1 20220706 (FR)

Application

EP 20775386 A 20200826

Priority

- FR 1909471 A 20190828
- FR 2020051503 W 20200826

Abstract (en)

[origin: WO2021038170A1] Equipment (10) comprising a laser head (18) intended to emit a laser beam (L) defining a longitudinal axis (X), a first, a second and a third container (12, 14, 16) respectively aligned in a first transverse plane substantially perpendicular to the longitudinal axis (X), the three containers each comprising a movable plate (24, 26, 28) that can move along the longitudinal axis (X), each plate being intended to receive a thickness of powder of which the free ends define three powder beds aligned in a second transverse plane, the equipment additionally comprising a movable scraper (20) intended to move in a third plane transverse with respect to the surface of the containers so as to be in contact with each of the powder beds, characterized in that it comprises a first and a second movable shield (30, 32) that are intended to move in the same third transverse plane as the movable scraper.

IPC 8 full level

B22F 3/105 (2006.01); **B29C 64/153** (2017.01); **B29C 64/268** (2017.01); **B33Y 10/00** (2015.01); **B33Y 30/00** (2015.01); **B33Y 40/00** (2020.01); **B33Y 50/02** (2015.01)

CPC (source: CN EP US)

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Citation (search report)

See references of WO 2021038170A1

Designated contracting state (EPC)

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Designated extension state (EPC)

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DOCDB simple family (publication)

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