

Title (en)

FABRICATING UNIQUE CHIPS USING A CHARGED PARTICLE MULTI-BEAMLET LITHOGRAPHY SYSTEM

Title (de)

HERSTELLUNG VON EINZIGARTIGEN CHIPS MIT EINEM LITHOGRAFIESYSTEM MIT MEHREREN LADUNGSTRÄGERTEILSTRAHLEN

Title (fr)

FABRICATION DE PUCES UNIQUES À L'AIDE D'UN SYSTÈME DE LITHOGRAPHIE À PETITS FAISCEAUX MULTIPLES DE PARTICULES CHARGÉES

Publication

**EP 3559752 A1 20191030 (EN)**

Application

**EP 17884025 A 20171222**

Priority

- US 201615389593 A 20161223
- US 201762458082 P 20170213
- JP 2017047416 W 20171222

Abstract (en)

[origin: WO2018117275A1] Method of manufacturing electronic devices using a maskless lithographic exposure system using a maskless pattern writer. The method comprises generating beamlet control data for controlling the maskless pattern writer to expose a wafer for creation of the electronic devices, wherein the beamlet control data is generated based on a feature data set defining features selectable for individualizing the electronic devices, wherein exposure of the wafer according to the beamlet control data results in exposing a pattern having a different selection of the features from the feature data set for different subsets of the electronic devices.

IPC 8 full level

**G03F 7/20** (2006.01); **H01L 21/82** (2006.01)

CPC (source: EP KR)

**G03F 7/2059** (2013.01 - EP KR); **G03F 7/70291** (2013.01 - EP KR); **G03F 7/70508** (2013.01 - EP KR); **H01J 37/3026** (2013.01 - EP KR); **H01J 37/3177** (2013.01 - EP KR); **H01J 2237/31762** (2013.01 - EP KR)

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 2018117275 A1 20180628**; CN 110268330 A 20190920; CN 110268330 B 20220128; CN 114355733 A 20220415; CN 114355733 B 20240315; EP 3559752 A1 20191030; EP 3559752 A4 20200819; KR 102359084 B1 20220207; KR 20190098222 A 20190821

DOCDB simple family (application)

**JP 2017047416 W 20171222**; CN 201780086059 A 20171222; CN 202210036020 A 20171222; EP 17884025 A 20171222; KR 20197021442 A 20171222