

Title (en)  
IMPROVED PARTICLE RECEPTION IN ABRASIVE ARTICLE CREATION

Title (de)  
VERBESSERTE TEILCHENAUFNAHME IN DER HERSTELLUNG VON SCHLEIFARTIKELN

Title (fr)  
RÉCEPTION DE PARTICULES AMÉLIORÉE DANS LA CRÉATION D'ARTICLES ABRASIFS

Publication  
**EP 3898091 A1 20211027 (EN)**

Application  
**EP 19835780 A 20191217**

Priority  
• US 201862781043 P 20181218  
• IB 2019060938 W 20191217

Abstract (en)  
[origin: WO2020128845A1] The present disclosure provides systems, devices, and methods for abrasive articles and manufacturing the same. A shaped abrasive particle placement tool can include a substrate including an abrasive particle receiving surface defining an x-y plane including an x-axis and a y-axis and a back surface opposite the abrasive particle receiving surface, cavities formed in the substrate, the cavities including one or more sidewalls, the cavities including a width and length at the abrasive article receiving surface, and a depth defined by a distance the first cavities extend from the abrasive article receiving surface towards the back surface in a direction parallel to a z-axis perpendicular to the x-y plane, and respective protrusions between two or more proximate cavities, the respective protrusions extending from the abrasive article receiving surface in a direction parallel to the z-axis and away from the back surface, and shaped abrasive particles situated in the cavities.

IPC 8 full level  
**B24D 11/00** (2006.01); **B24D 18/00** (2006.01)

CPC (source: EP US)  
**B24D 11/001** (2013.01 - EP US); **B24D 18/0072** (2013.01 - EP US); **B24D 2203/00** (2013.01 - EP US)

Citation (search report)  
See references of WO 2020128845A1

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 2020128845 A1 20200625**; CN 113423537 A 20210921; EP 3898091 A1 20211027; US 2022040815 A1 20220210

DOCDB simple family (application)  
**IB 2019060938 W 20191217**; CN 201980091707 A 20191217; EP 19835780 A 20191217; US 201917415124 A 20191217