



(51) International Patent Classification:

C04B 38/00 (2006.01) *C04B 28/24* (2006.01)
B01J 35/00 (2006.01)

(21) International Application Number:

PCT/US2015/055088

(22) International Filing Date:

12 October 2015 (12.10.2015)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/077,977 11 November 2014 (11.11.2014) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,

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(54) Title: HIGH CAPACITY STRUCTURES AND MONOLITHS VIA PASTE IMPRINTING

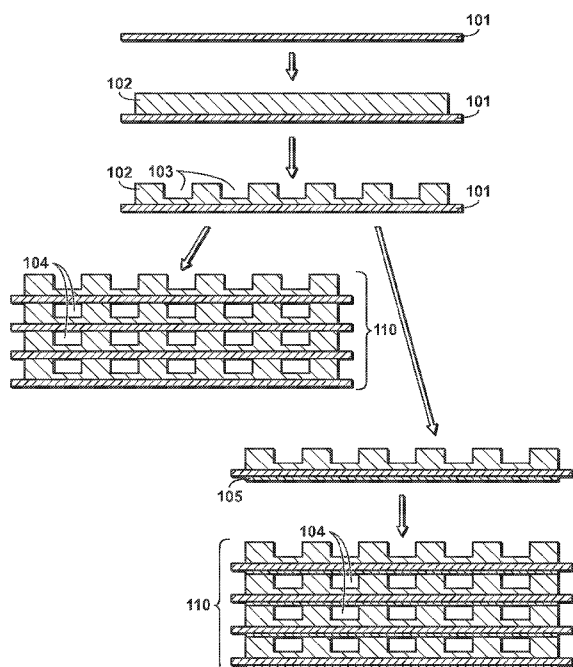


FIG. 1

(57) Abstract: The disclosure relate generally to structures, forms, and monoliths, and methods of preparing the same. This disclosure can produce uniform structured passageways or channels of active material, including adsorbent or catalyst, by imprinting or molding features into a paste on a support that can be subsequently assembled into a gas or liquid treating structure, i.e. a monolith. The paste, which can include an active material, binder, and other potential additives, can be applied to the support or pushed through a support (as in a mesh) as a thin film. The paste can be imprinted, stamped, shaped or otherwise handled to give features of desired height, shape, width, and positioning. When stacked or rolled, the features of one layer contact a subsequent layer, which seal to form passageways. The resulting structure can have high cell-density (>1000 cells per square inch) and a large volume fraction of active material.



LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, KM, ML, MR, NE, SN, TD, TG).

— *as to the applicant's entitlement to claim the priority of
the earlier application (Rule 4.17(iii))*

Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted
a patent (Rule 4.17(ii))*

Published:

— *with international search report (Art. 21(3))*