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(54) Title: MIXING POWDERED BUILD MATERIAL FOR ADDITIVE MANUFACTURING

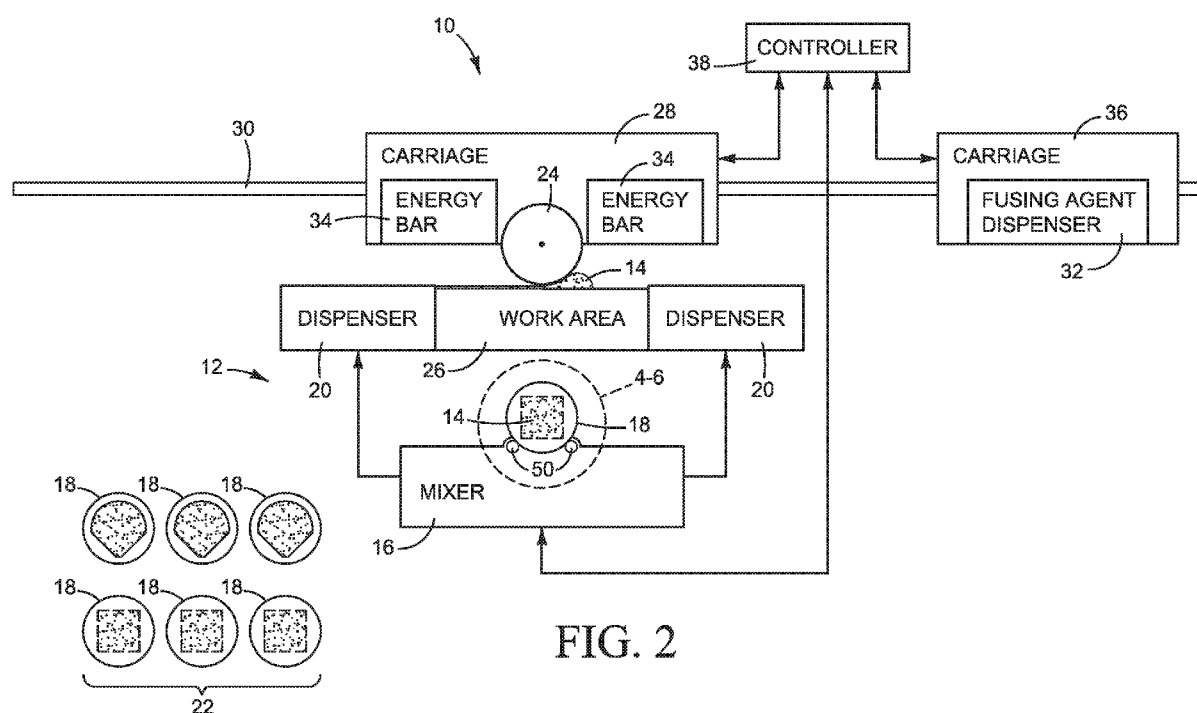


FIG. 2

(57) Abstract: In one example, a group of interchangeable supply modules to hold powdered build material for additive manufacturing. Each supply module in the group includes an exterior sized and shaped to fit into a mixer; an interior defining a non-circular mixing chamber, and an outlet through which powdered build material may leave the mixing chamber.

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

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

Published:

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(88) Date of publication of the international search report:

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2016/030329**A. CLASSIFICATION OF SUBJECT MATTER****B29C 67/00(2006.01)i, B33Y 40/00(2015.01)i, B33Y 50/02(2015.01)i, B33Y 70/00(2015.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

B29C 67/00; B01F 11/00; F27B 007/28; B65B 1/04; G01F 11/00; F27B 007/14; B01D 46/00; B33Y 40/00; B33Y 50/02; B33Y 70/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: additive manufacturing, powder, interchangeable supply modules, non-circular mixing chamber, sleeve**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2013-0186514 A1 (ZHUANG, CHUAN-SHENG et al.) 25 July 2013 See abstract; paragraphs [0028],[0032]; claims 1, 6, 7; and figures 1, 2A, 3.	1-15
A	JP 62-227433 A (TOKUJIYU KOSAKUSHO KK) 06 October 1987 See claims 1-5; and figures 1-3.	1-15
A	US 2008-0060330 A1 (DAVIDSON, THOMAS et al.) 13 March 2008 See abstract.	1-15
A	EP 0004756 B1 (Bethlehem Steel Corporation) 22 June 1983 See claim 1; and figures 1-3.	1-15
A	US 7665636 B2 (EDERER, INGO et al.) 23 February 2010 See abstract.	1-15



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2016/030329

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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