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- (71) Applicant: **C-CRETE TECHNOLOGIES LLC**
[US/US]; 14421 Catalina Street, San Leandro, California
94577 (US).
- (72) Inventors: **SAVARY, Rouzbeh**; 14421 Catalina Street, San
Leandro, California 94577 (US). **EMINOV, Sanan**; 14421
Catalina Street, San Leandro, California 94577 (US).

(74) Agent: **HOLLAND, Emma** et al.; DLA Piper LLP
(US), One Liberty Place, 1650 Market Street, Suite 5000,
Philadelphia, Pennsylvania 19103-7300 (US).

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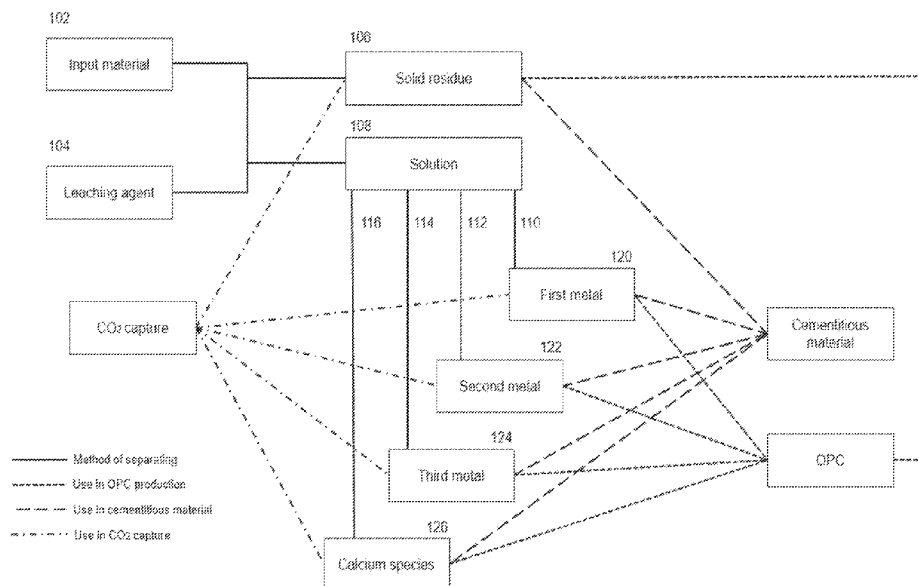


FIGURE 1

(57) Abstract: The present disclosure provides a method of separating materials which includes providing an input material comprising one or more metal compounds, contacting the input material with a leaching agent to yield a solid residue and a solution, and performing one or more separations on the solution to isolate the one or more metal compounds. The resulting separated components may be used for carbon dioxide capture, as precursors for cementitious materials or ordinary Portland cement, or combinations thereof.

LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE,
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A. CLASSIFICATION OF SUBJECT MATTER

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ADD.

CPC - INV. C04B 14/36, C04B 14/28

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

See Search History document

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

See Search History document

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

See Search History document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/053788 A1 (Nichromet Extraction Inc.) 11 July 2002 (11.07.2002) Pg. 1 ln 2-3; Pg. 3 ln 2-5; Pg. 3 ln 8-10; Pg. 3 ln 11-15; Pg. 12 ln 19-21; Pg. 12 ln 21-22; Pg. 13 ln 3-10	1-3, 6, 8-22, 25-26
---		4-5, 7, 23-24, 27-41
Y	US 2021/0162392 A1 (The Governing Council of the University of Toronto et al.) 03 June 2021 (03.06.2021) Para [0005]; [0006]; [0012]; [0049]	4-5
Y	US 6,042,794 A (Amundsen et al.) 28 March 2000 (28.03.2000) Col 1 ln 6-7; Col 1 ln 60-62; Pg. 12 ln 19-21	7
Y	US 2021/0070656 A1 (California Institute of Technology et al.) 11 March 2021 (11.03.2021) Para [0003]; [0004]; [0008]; [0057]; [0062]	23, 29-32, 34-41
Y	WO 2017/162901 A1 (Outotec (Finland) OY) 28 September 2017 (28.09.2017) Pg. 1 ln 3-5; Pg. 4 ln 20-29; Pg. 4 ln 27-30	24, 27-30, 33, 38



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Facsimile No. 571-273-8300

Authorized officer

Kari Rodriguez

Telephone No. PCT Helpdesk: 571-272-4300