



INTERNATIONAL PATENT: ILUKA RESOURCES LIMITED FILES APPLICATION FOR "PROCESS AND APPARATUS"

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Body

GENEVA, Sept. 2 -- **ILUKA RESOURCES** LIMITED (Level 17240 St Georges TerracePerth, Western Australia 6000) filed a patent application (PCT/AU2024/050139) for "PROCESS AND APPARATUS" on Feb 23, 2024. With publication no. WO/2024/173995, the details related to the patent application was published on Aug 29, 2024.

Notably, the patent application was submitted under the International Patent Classification (IPC) system, which is managed by the World Intellectual Property Organization (WIPO). Inventor(s): BERNARD, Nicholas Glen (c/ - Level 17240 St Georges TerracePerth, Western Australia 6000), BULTITUDE-PAULL, John Maxwell (c/ - Level 17240 St Georges TerracePerth, Western Australia 6000), SHARAFELDEEN, Mostafa (c/ - Level 17240 St Georges TerracePerth, Western Australia 6000), HECKLEY, Philip Scott (c/ - Level 17240 St Georges TerracePerth, Western Australia 6000), MCGRATH, Daniel Thomas (c/ - Level 17240 St Georges TerracePerth, Western Australia 6000), SAKAR, Suresh (c/ - Level 17240 St Georges TerracePerth, Western Australia 6000) Abstract: Method and apparatus (10) for processing a mineral sand particulate, wherein the mineral sand particulate comprises zircon and a contaminant, and the contaminant comprises uranium and/or thorium species. The method comprises heating a composition comprising the mineral sand particulate and: a. sulphuric acid and a sulfate; b. a bisulfate; or c. a combination of a. and b. The composition is transported past or through a heat source (25) to heat the composition to a peak temperature of at least about 270degC. The processing apparatus (10) includes one or more vessels (20) containing respective contents of the composition, and a heating device (12) having predefined zones (14, 16, 18) to heat and cool the contents of the one or more vessels (20) according to a heating regime. The predefined zones include a preheat zone (14) operable to heat the contents at an average rate within the range of about 2 to about 7degC per minute; and a holding zone (16) to hold the contents at a holding temperature within the range of about 270 to about 1000degC. For more information: <https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2024173995> For any query with respect to this article or any other content requirement, please contact Editor at contentservices@htdigital.in

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