



INTERNATIONAL PATENT: ILUKA RESOURCES LIMITED FILES APPLICATION FOR "PROCESSING 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/AU2024/050138) for "PROCESSING APPARATUS" on Feb 23, 2024. With publication no. WO/2024/173994, 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: A processing apparatus (10) includes one or more vessels (20) for containing respective contents and a heating device (12). The heating device (12) has 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 2degC per minute to about 7degC per minute until reaching a holding temperature within the range of about 270degC to about 1000degC. The predefined zones include a holding zone (16) to hold the contents at the holding temperature. The holding temperature is the peak temperature of the heating regime. A moving device (21) moves the vessels (20) sequentially through the zones. A mixer or mixing station (34) may be provided upstream of the heating chamber (24) to premix the contents before heating. A recycler (32) may be provided for converting at least a portion of gas from the gas flow through the chamber to an acid in liquid form, wherein the recycler (32) is fluidly connected to discharge the liquid acid to the mixer or mixing station (34). For more information: <https://patentscope.wipo.int/search/en/detail.jsf?docId=WO2024173994> For any query with respect to this article or any other content requirement, please contact Editor at contentservices@htdigital.in

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