

Title (en)

METHOD AND DEVICE FOR THE CRYOGENIC DECOMPOSITION OF AIR

Title (de)

VERFAHREN UND VORRICHTUNG ZUR TIEFTEMPERATURZERLEGUNG VON LUFT

Title (fr)

PROCEDE ET DISPOSITIF CRYOGENIQUES DE SEPARATION D'AIR

Publication

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Application

EP 15001881 A 20150625

Priority

- EP 14002310 A 20140705
- EP 15001881 A 20150625

Abstract (en)

[origin: US2016003535A1] A method and apparatus serve for the cryogenic separation of air in an air separation plant which has a main air compressor, a main heat exchanger and a distillation column system with a high-pressure column and a low-pressure column. All of the feed air is compressed in the main air compressor to a first air pressure which is at least 3 bar higher than the operating pressure of the high-pressure column. A first part of the compressed total air flow, as first air flow at the first air pressure, is cooled and liquefied or pseudo-liquefied in the main heat exchanger, then expanded and introduced into the distillation column system. A second part of the compressed total air flow, as second air flow, is post-compressed in a turbine-driven post-compressor to a second air pressure.

IPC 8 full level

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F25J 3/04812 (2013.01 - EP RU US); **F25J 2205/04** (2013.01 - EP US); **F25J 2245/50** (2013.01 - EP US)

Cited by

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