

Title (en)

Three-column system for the cryogenic separation of air

Title (de)

Drei-Säulen-System zur Tieftemperatur-Zerlegung von Luft

Title (fr)

Système de séparation d'air cryogénique à trois colonnes

Publication

EP 1199532 B1 20050803 (DE)

Application

EP 01103828 A 20010215

Priority

DE 10052180 A 20001020

Abstract (en)

[origin: EP1199532A1] Process for low temperature decomposition of air is carried out in a three column system consisting of a high pressure column (1), a middle pressure column (2) and a low pressure column (3). Process for low temperature decomposition of air comprises: (i) compressing a first air stream (10, 14, 15, 16) in a gas turbine compressor (11), purifying, cooling and feeding to the high pressure column; (ii) compressing a second air stream in an air compressor (21) operated by the gas turbine, purifying, cooling and feeding to the middle pressure column; (iii) producing a first oxygen-enriched fraction (53, 54) in the high pressure column; (iv) feeding the first oxygen-enriched fraction to the middle pressure column; and (v) feeding a second oxygen-enriched fraction (57) from the middle pressure column to the low pressure column. An Independent claim is also included for a device for carrying out the low temperature decomposition of air.

IPC 1-7

F25J 3/04

IPC 8 full level

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CPC (source: EP)

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Cited by

EP1120617A3; EP2634517A1; DE102009023900A1; EP1120616A3; US2013340476A1; CN104067079A; AU2012230171B2; US2022090855A1; US11988446B2; US9360250B2

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