

Title (en)
Process and installation for producing ultrapure nitrogen by air distillation

Title (de)
Verfahren und Anlage zur Herstellung von ultrareinem Stickstoff durch Luftdestillation

Title (fr)
Procédé et installation de production d'azote ultra-pur par distillation d'air

Publication
EP 0611936 B1 19970514 (FR)

Application
EP 94400257 A 19940207

Priority
FR 9301403 A 19930209

Abstract (en)
[origin: EP0611936A1] The installation is of the double column type (5), comprising a first column (6) for nitrogen/oxygen separation, fed with the air to be treated, and a second column (7) for nitrogen/hydrogen separation, the head of which is coupled to the chamber of the first column via an evaporator/condenser (10), and which includes a chamber evaporator (11), and a nitrogen cooling circuit (12) whose high-pressure part feeds the chamber evaporator (11) of the second column (7), then this second column itself. The installation furthermore comprises means (10; 10A) for condensing the nitrogen in the high-pressure circuit by vapourising liquid in the tank of the first column (6). <IMAGE>

IPC 1-7
F25J 3/04

IPC 8 full level
F25J 3/04 (2006.01)

CPC (source: EP US)
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Cited by
EP0877219A3; FR3069913A1; EP0701099A1; EP0902245A1; EP3438587A1; CN109387033A; US10794630B2; US10866024B2

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