

Title (en)
AIR SEPARATION PROCESS BY LOW TEMPERATURE RECTIFICATION

Publication
EP 0316768 B1 19910619 (DE)

Application
EP 88118753 A 19881110

Priority
DE 3738559 A 19871113

Abstract (en)
[origin: JPH01239376A] PURPOSE: To ensure actuation particularly excellent in energy by achieving later expansion of a second partial flow in two stages. CONSTITUTION: Work obtained upon a second partial flow being expanded is utilized in later compression of a second partial flow in a first stage. The second partial flow 8 is compressed in two later compression stages 9, 11, and compression heat is removed in later condensers 10, 12. After the second partial flow is further cooled in a heat exchanger 13, a further another partial flow 18 is branched from the second partial flow 8 and is expanded in an expansion apparatus 19, and work obtained thereupon is provided to the later compression stage 9. Part of an expanded side passage flow 18 is introduced into a first stage 21 of a rectifier 20, and the other is returned to a compressor 15 after passage through the heat exchangers 15, 13.

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
EP2312247A1; EP3385248A1; FR2685460A1; EP0383994A3; EP0384483A3; EP0420725A1; FR2652409A1; US5157926A; EP0618415A1; FR2703140A1; US5412953A; EP2963367A1; CN106662394A; RU2691210C2; US11066346B2; DE102013019504A1; WO2018185310A1; WO2016005030A1

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