

Title (en)
AIR SEPARATION PROCESS AND APPARATUS

Publication
EP 0377117 B1 19920325 (DE)

Application
EP 89122047 A 19891129

Priority
DE 3840506 A 19881201

Abstract (en)
[origin: JPH02247484A] PURPOSE: To reduce the cost and driving cost of a crude argon rectifying device, by performing crude argon rectification in at least 150 theoretical plates. CONSTITUTION: A crude argon tower 24 is provided with structured fixed bed of the number corresponding to 170-200, particularly, about 180 theoretical plates and driven with a pressure in a low-pressure stage between 1.2 bar and 1.6 bar, particularly, at about 1.3 bar. Packed bed having the same low pressure drop can also be installed to the tower 24 instead of the fixed bed. Crude argon containing oxygen at a concentration of about 1 ppm only is drawn out in a gaseous state from the tower 24 through a conduit 25. Part of the crude argon is liquefied in a head-section condenser 26 and returned to the tower 24 as a return flow. The remaining part of the crude argon is condensed through heat exchange with evaporated nitrogen coming from a high-pressure stage in a crude argon liquefying device 28.

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IPC 8 full level
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