

Title (en)
Process and apparatus for the low temperature separation of air

Title (de)
Verfahren und Vorrichtung zur Tieftemperaturzerlegung von Luft

Title (fr)
Procédé et dispositif pour la séparation de l'air à basse température

Publication
EP 0681153 B1 19970910 (DE)

Application
EP 95106750 A 19950504

Priority
DE 4415747 A 19940504

Abstract (en)
[origin: EP0681153A1] Compressed air is cleaned, cooled, and then fractionated in the pressure section (3). Streams (8,9) are further fractionated (2) by the two-stage LP section (4) into N₂ and O₂ products, at the head (10) and base (11) respectively. Heat is exchanged between the bottom of the LP stage (4), and the top of the pressure stage (3). Under steady state standby operation, virtually all fluid returning to the bottom of the LP section (4) is piped (11,12) to the buffer (13). This (13) supplies fluid (16) to the indirect heat exchanger (6), which is partially evaporated by heat from condensing gas (5) from the top of the pressure section (3). The vapour (17,18) is returned low in the LP column; residual fluid is returned (17,12) to the buffer (13). Plant to carry out the procedure described above, is also claimed. <IMAGE>

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Cited by
FR2855598A1; CN103537107A; EP2503270A1; CN108072234A; EP1110588A1; FR2802825A1; US6038885A; EP0895045A3; US6272884B1; US7870759B2; WO2004109207A1

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