

Title (en)
DISTILLATION COLUMN SYSTEM AND SYSTEM FOR THE PRODUCTION OF OXYGEN BY CRYOGENIC DECOMPOSITION OF AIR

Title (de)
DESTILLATIONSSÄULEN-SYSTEM UND ANLAGE ZUR ERZEUGUNG VON SAUERSTOFF DURCH TIEFTEMPERATURZERLEGUNG VON LUFT

Title (fr)
SYSTEME DE COLONNES DE DISTILLATION ET INSTALLATION DE PRODUCTION D'OXYGENE PAR SEPARATION CRYOGENIQUE DE L'AIR

Publication
EP 3133361 B1 20180613 (DE)

Application
EP 16001736 A 20160804

Priority
EP 15002477 A 20150820

Abstract (en)
[origin: US2017051971A1] A distillation column system and a plant are for production of oxygen by cryogenic fractionation of air. The distillation column system has a high-pressure column and a low-pressure column, a main condenser, and an argon column with an argon column top condenser. The low-pressure column comprises an upper mass transfer region, a lower mass transfer region and a middle mass transfer region. The argon column top condenser is arranged within the low-pressure column between the upper and middle mass transfer regions and is configured as a forced-flow evaporator.

IPC 8 full level
F25J 3/04 (2006.01)

CPC (source: CN EP US)
F25J 3/02 (2013.01 - CN); **F25J 3/0285** (2013.01 - CN); **F25J 3/04** (2013.01 - CN); **F25J 3/04024** (2013.01 - US); **F25J 3/04036** (2013.01 - CN); **F25J 3/04084** (2013.01 - EP US); **F25J 3/0409** (2013.01 - EP US); **F25J 3/04157** (2013.01 - US); **F25J 3/04169** (2013.01 - US); **F25J 3/04296** (2013.01 - EP US); **F25J 3/04303** (2013.01 - EP US); **F25J 3/04387** (2013.01 - EP US); **F25J 3/04393** (2013.01 - EP US); **F25J 3/04412** (2013.01 - EP US); **F25J 3/04654** (2013.01 - CN); **F25J 3/04672** (2013.01 - EP US); **F25J 3/04678** (2013.01 - EP US); **F25J 3/04703** (2013.01 - EP US); **F25J 3/048** (2013.01 - CN EP US); **F25J 3/04818** (2013.01 - EP US); **F25J 3/04896** (2013.01 - EP US); **F25J 3/04909** (2013.01 - EP US); **F25J 3/04921** (2013.01 - EP US); **F25J 3/04939** (2013.01 - EP US); **F25J 3/04963** (2013.01 - EP US); **F25J 2200/54** (2013.01 - EP US); **F25J 2200/72** (2013.01 - US); **F25J 2205/02** (2013.01 - EP US); **F25J 2205/60** (2013.01 - US); **F25J 2205/84** (2013.01 - US); **F25J 2230/02** (2013.01 - US); **F25J 2230/40** (2013.01 - US); **F25J 2240/10** (2013.01 - EP US); **F25J 2240/40** (2013.01 - EP US); **F25J 2240/48** (2013.01 - EP US); **F25J 2245/02** (2013.01 - EP US); **F25J 2245/42** (2013.01 - EP US); **F25J 2245/58** (2013.01 - EP US); **F25J 2250/02** (2013.01 - EP US); **F25J 2250/04** (2013.01 - EP US); **F25J 2270/02** (2013.01 - US); **F25J 2270/90** (2013.01 - US); **F25J 2290/12** (2013.01 - EP US)

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