

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  
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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  
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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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