

Title (en)  
JET EJECTOR SYSTEM AND METHOD

Title (de)  
STRAHLAUSSTOSSSYSTEM UND -VERFAHREN

Title (fr)  
SYSTEME ET PROCEDE D'EJECTEUR DE JET

Publication  
**EP 1706619 A2 20061004 (EN)**

Application  
**EP 04784470 A 20040920**

Priority

- US 2004030615 W 20040920
- US 50413803 P 20030919
- US 94437404 A 20040917
- US 94431704 A 20040917
- US 94407104 A 20040917

Abstract (en)  
[origin: WO2005028982A1] According to one embodiment of the invention, a vapor-compression evaporation system includes a plurality of vessels in series each containing a feed having a nonvolatile component, a mechanical compressor (445) coupled to the last vessel in the series and operable to receive a vapor from the last vessel in the series, a pump operable to deliver a cooling liquid (444) to the mechanical compressor, a tank coupled to the mechanical compressor and operable to separate liquid and vapor received from the mechanical compressor, a plurality of heat exchangers coupled inside respective ones of the vessels, the heat exchanger in the first vessel in the series operable to receive the vapor from the tank, at least some of the vapor condensing therein, whereby the heat of condensation provides the heat of evaporation to the first vessel in the series, and wherein at least some of the vapor inside the first vessel in the series is delivered to the heat exchanger in the next vessel in the series, whereby the condensing, evaporating, and delivering steps continue until the last vessel in the series is reached.

IPC 8 full level  
**F04F 5/46** (2006.01); **B01D 1/26** (2006.01); **B01D 1/28** (2006.01); **F04F 5/54** (2006.01); **F28D 9/00** (2006.01); **F28F 3/04** (2006.01); **F28F 21/06** (2006.01)

CPC (source: EP)  
**B01D 1/26** (2013.01); **B01D 1/28** (2013.01); **B01D 1/2846** (2013.01); **F04F 5/466** (2013.01); **F04F 5/467** (2013.01); **F04F 5/54** (2013.01); **F28D 9/0037** (2013.01); **F28F 3/04** (2013.01); **F28F 21/065** (2013.01); **F28F 2250/08** (2013.01); **F28F 2280/02** (2013.01); **Y02A 20/124** (2017.12)

Citation (search report)  
See references of WO 2005028831A2

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005028982 A1 20050331**; EP 1673584 A1 20060628; EP 1680639 A1 20060719; EP 1706619 A2 20061004; WO 2005028831 A2 20050331; WO 2005028831 A3 20050922; WO 2005028983 A1 20050331

DOCDB simple family (application)  
**US 2004030619 W 20040920**; EP 04784470 A 20040920; EP 04784472 A 20040920; EP 04784508 A 20040920; US 2004030615 W 20040920; US 2004030660 W 20040920