

Title (en)  
Cryogenic treatment installation, particularly for the distillation of air

Title (de)  
Kryogenische Behandlungsanlage, insbesondere für die Lufttrennung

Title (fr)  
Installation de traitement cryogénique, notamment de distillation d'air

Publication  
**EP 0588690 B1 19970528 (FR)**

Application  
**EP 93402179 A 19930908**

Priority  
FR 9211051 A 19920916

Abstract (en)  
[origin: EP0588690A1] In this installation, the treatment column (1) is insulated by a vacuum casing (15), while the heat exchange line (3) is insulated by a cold box (19) at atmospheric pressure containing a solid insulant, in particular in particle form. <IMAGE>

IPC 1-7  
**F25J 3/04**

IPC 8 full level  
**F25J 3/00** (2006.01); **F17C 13/00** (2006.01); **F25J 3/04** (2006.01)

CPC (source: EP US)  
**F17C 13/001** (2013.01 - EP US); **F25J 3/04084** (2013.01 - EP US); **F25J 3/0409** (2013.01 - EP US); **F25J 3/04236** (2013.01 - EP US); **F25J 3/04296** (2013.01 - EP US); **F25J 3/04303** (2013.01 - EP US); **F25J 3/04393** (2013.01 - EP US); **F25J 3/04412** (2013.01 - EP US); **F25J 3/04672** (2013.01 - EP US); **F25J 3/0489** (2013.01 - EP US); **F25J 3/04945** (2013.01 - EP US); **F17C 2221/011** (2013.01 - EP US); **F17C 2221/014** (2013.01 - EP US); **F17C 2225/0161** (2013.01 - EP US); **F17C 2225/033** (2013.01 - EP US); **F17C 2227/0135** (2013.01 - EP US); **F17C 2227/0362** (2013.01 - EP US); **F17C 2260/033** (2013.01 - EP US); **Y10S 62/905** (2013.01 - EP US); **Y10S 62/907** (2013.01 - EP US)

Citation (examination)  
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EP0611218B2

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DE FR GB IT

DOCDB simple family (publication)  
**EP 0588690 A1 19940323**; **EP 0588690 B1 19970528**; CA 2106106 A1 19940317; CN 1072351 C 20011003; CN 1085312 A 19940413; CZ 192293 A3 19940615; CZ 283688 B6 19980617; DE 69311040 D1 19970703; DE 69311040 T2 19971211; FR 2695714 A1 19940318; FR 2695714 B1 19941028; JP 3436394 B2 20030811; JP H06194035 A 19940715; US 5412954 A 19950509

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