

Title (en)  
METHOD FOR THE ADAPTATION OF A 2-STAGE CRYOGENIC PUMP TO A SPECIFIC GAS

Publication  
**EP 0338113 B1 19920129 (DE)**

Application  
**EP 88106497 A 19880422**

Priority  
EP 88106497 A 19880422

Abstract (en)  
[origin: EP0338113A1] The cryogenic pump (1) has a first refrigeration stage (4) to which pump faces (6, 7) are fixed and which is equipped with a heating device; in addition the cryogenic pump (1) has a second refrigeration stage (5) to which pump faces (10) are fixed and which during operation assumes a temperature of up to 20 K; in order to permit optimum pump characteristics with gases of differing vapour pressures, it is proposed that the heating device be controlled in such a way that the coldest point on the first refrigeration head (4) and/or its pump faces (6, 7) has a temperature which is 5 to 10 K higher than the vapour pressure temperature of the respective gas at maximum process pressure. <IMAGE>

IPC 1-7  
**F04B 37/08**

IPC 8 full level  
**F04B 37/08** (2006.01)

CPC (source: EP US)  
**F04B 37/08** (2013.01 - EP US); **Y10S 417/901** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI NL

DOCDB simple family (publication)  
**EP 0338113 A1 19891025; EP 0338113 B1 19920129**; AT E72301 T1 19920215; DE 3868264 D1 19920312; JP 2668261 B2 19971027; JP H01305173 A 19891208; US 4953359 A 19900904

DOCDB simple family (application)  
**EP 88106497 A 19880422**; AT 88106497 T 19880422; DE 3868264 T 19880422; JP 9771289 A 19890419; US 33860689 A 19890414