

Title (en)

Method of and apparatus for cooling a seal for machinery

Title (de)

Verfahren und Einrichtung zur Kühlung einer Wellendichtung

Title (fr)

Méthode et dispositif pour le refroidissement d'un joint pour l'arbre d'une machine

Publication

EP 0623735 B1 19980107 (EN)

Application

EP 94303186 A 19940503

Priority

- US 5524793 A 19930503
- US 19969794 A 19940222

Abstract (en)

[origin: EP0623735A1] A seal (46) heated by hot pressurized vapor is cooled by providing a chamber (32) in which the seal (46) is located and for containing vapor that leaks therein. The pressure in the chamber is reduced by connecting it to a source of low pressure; and liquid is supplied to the chamber at a pressure above the reduced pressure of the chamber (32) and at a temperature below the temperature of vapor leaking into the chamber. The liquid is introduced into the chamber (32) as droplets for contacting vapor that leaks therein thereby cooling the vapor and thus cooling the seal (46). The flow rate of the liquid is adjustable in accordance with the temperature of the liquid in the chamber. <IMAGE>

IPC 1-7

F01D 25/12

IPC 8 full level

F01D 5/02 (2006.01); **F01D 11/00** (2006.01); **F01D 25/12** (2006.01)

CPC (source: EP)

F01D 5/02 (2013.01); **F01D 11/00** (2013.01); **F01D 25/125** (2013.01)

Cited by

CN112253259A; US8938978B2

Designated contracting state (EPC)

DE GB IT NL

DOCDB simple family (publication)

EP 0623735 A1 19941109; **EP 0623735 B1 19980107**; DE 69407655 D1 19980212; DE 69407655 T2 19980520; IL 109498 A0 19940826; IL 109498 A 20020725; NZ 260405 A 19950726

DOCDB simple family (application)

EP 94303186 A 19940503; DE 69407655 T 19940503; IL 10949894 A 19940502; NZ 26040594 A 19940427