

Title (en)
COLD HEAD FOR CRYOGENIC REFRIGERATING MACHINE

Title (de)
KALKOPF FÜR TIEFTEMPERATUR-KÄLTEMASCHINE

Title (fr)
TÊTE FROIDE POUR REFRIGÉRISEUR CRYOGÉNIQUE

Publication
EP 3071903 B1 20200722 (DE)

Application
EP 14798872 A 20141114

Priority
• DE 202013010352 U 20131118
• EP 2014074623 W 20141114

Abstract (en)
[origin: WO2015071418A1] A cold head for cryogenic machines comprises a displacer (72, 76) mounted in a working chamber (38, 40, 46) of a housing (34, 36). The cold head also has a high-pressure connection (64) for supplying highly compressed refrigerant and a low-pressure connection (60) for discharging expanded refrigerant. Also provided is a control valve arrangement (58) for controlling the supply and discharge of refrigerant. According to the invention there is a bypass channel (80) connecting the high-pressure connection to the low-pressure connection.

IPC 8 full level
F25B 9/14 (2006.01)

CPC (source: EP KR US)
F25B 9/14 (2013.01 - EP KR US); **F25B 2309/006** (2013.01 - EP KR US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
DE 202013010352 U1 20150219; CN 105814375 A 20160727; CN 105814375 B 20171124; EP 3071903 A1 20160928; EP 3071903 B1 20200722; JP 2016537604 A 20161201; JP 6525998 B2 20190605; KR 102248108 B1 20210503; KR 20160086841 A 20160720; US 2016273809 A1 20160922; WO 2015071418 A1 20150521

DOCDB simple family (application)
DE 202013010352 U 20131118; CN 201480061773 A 20141114; EP 14798872 A 20141114; EP 2014074623 W 20141114; JP 2016532129 A 20141114; KR 20167012996 A 20141114; US 201415036612 A 20141114