

Title (en)

Process and apparatus to guide the fluid in tube bundle heat exchangers for thermal treatment of suspensions.

Title (de)

Verfahren und Anordnung zur Strömungsführung in Rohrbündel-Wärmeaustauschern zur thermischen Behandlung von Suspensionen

Title (fr)

Procédé et agencement de guidance d'écoulement dans des échangeurs de chaleur à faisceau tubulaire pour le traitement thermique de suspensions

Publication

EP 1742006 B1 20120201 (DE)

Application

EP 06011990 A 20060610

Priority

DE 102005030999 A 20050702

Abstract (en)

[origin: EP1742006A1] A dairy industry heat exchanger has a group of pipes that heat a suspension also incorporating lumpy material or elongated fibers. Prior to introduction to the heat exchanger, the suspension is sub-divided into a number of fractions that are separated by a distance which is at least as wide as the longest fiber component in the suspension. Each fraction passes individually through the heat exchanger.

IPC 8 full level

F28F 19/00 (2006.01); **F28D 7/16** (2006.01); **F28F 9/00** (2006.01); **F28F 27/02** (2006.01)

CPC (source: EP)

F28D 7/1607 (2013.01); **F28F 9/00** (2013.01); **F28F 9/0275** (2013.01); **F28F 9/26** (2013.01); **F28F 19/00** (2013.01)

Cited by

US2015159964A1; RU2663676C1; CN104937361A; JP2016509192A; RU2643283C2; US10234208B2; WO2014118048A1; WO2014006151A1; WO2015075633A1; EP2762822A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1742006 A1 20070110; **EP 1742006 B1 20120201**; AT E544046 T1 20120215; DE 102005030999 A1 20070111; DE 102005030999 B4 20071025; PL 1742006 T3 20120831

DOCDB simple family (application)

EP 06011990 A 20060610; AT 06011990 T 20060610; DE 102005030999 A 20050702; PL 06011990 T 20060610