Title (en)

APPARATUS FOR CLEANING HEAT EXCHANGER PIPES AND METHOD OF RUNNING SUCH AN APPARATUS

Publication

EP 0087645 B1 19851016 (DE)

Application

EP 83101302 A 19830211

Priority

DE 3207466 A 19820302

Abstract (en)

[origin: US4566533A] In the operation of cleaning the pipes of heat exchangers by means of sponge rubber balls which are entrained by the cooling water, a cylindrical housing is connected upstream of the heat exchanger, in which housing several chambers are formed by several dividing walls rotating about a vertical axis, and the chambers are subdivided by a horizontal sieve plate into an upper group of chambers for receiving the balls and into a lower group of chambers. In this arrangement, two opposite cooling water supply and removal connections are each provided in the region of the lower group of chambers, and two similar cooling water connections are provided in the region of the upper group of chambers which are connected to the heat exchanger pipes. In order to also allow a discontinuous cleaning operation, while stopping the balls and without interrupting the flow of cooling water, the present invention provides that the interior of the housing (2) is subdivided by three dividing walls (4,5,6) which are arranged at 120 DEG to one another, into three equal chambers (7, 8, 9), each cross-sectional surface of which is approximately the same size as the cross-sectional surface of one of the cooling water connections (11 . . . 14).

IPC 1-7

F28G 1/12

IPC 8 full level

F28G 1/12 (2006.01)

CPC (source: EP US)

F28G 1/12 (2013.01 - EP US); Y10T 137/8049 (2015.04 - EP US)

Cited by

EP0148509A1; EP0107705A4; CN113048827A; GB2207972A; GB2207972B; GB2135751A; CN104596349A

Designated contracting state (EPC)

DE FR GB IT SE

DOCDB simple family (publication)

EP 0087645 A2 19830907; **EP 0087645 A3 19840328**; **EP 0087645 B1 19851016**; AU 1184583 A 19830908; DE 3207466 A1 19830915; DE 3361006 D1 19851121; JP S58165000 A 19830929; JP S60111895 U 19850729; US 4566533 A 19860128; ZA 831372 B 19831228

DOCDB simple family (application)

EP 83101302 A 19830211; AU 1184583 A 19830225; DE 3207466 A 19820302; DE 3361006 T 19830211; JP 12086984 U 19840806; JP 3371683 A 19830301; US 47101483 A 19830301; ZA 831372 A 19830301