

Title (en)

CLEANING BODIES FOR THE INTERNAL CLEANING OF TUBE HEAT EXCHANGERS

Publication

EP 0041698 B1 19830511 (DE)

Application

EP 81104312 A 19810604

Priority

DE 3021698 A 19800610

Abstract (en)

[origin: US4406031A] Cleaning member for cleaning the interior of heat exchanger tubes by rotating, including a sponge rubber element being adapted to suit the diameter of the heat exchanger tube, and abrasive elements connected to the sponge rubber body, the abrasive elements being in the form of bristles each having a bristle shaft, and a bristle base molded into the sponge rubber ball anchoring the bristles.

IPC 1-7

F28G 1/12

IPC 8 full level

B08B 9/04 (2006.01); **B08B 9/053** (2006.01); **B08B 9/055** (2006.01); **F28G 1/12** (2006.01)

CPC (source: EP US)

B08B 9/0552 (2013.01 - EP US); **B08B 9/0553** (2013.01 - EP US); **F28G 1/12** (2013.01 - EP US)

Cited by

FR2618698A1; CN101856659A; GB2348938A; GB2348938B; AU739234B2; FR2527326A1; WO2017142869A1; WO2013174603A1; WO2005014767A1; US6276017B1; WO9961178A1

Designated contracting state (EPC)

FR GB IT

DOCDB simple family (publication)

EP 0041698 A2 19811216; **EP 0041698 A3 19820519**; **EP 0041698 B1 19830511**; DE 3021698 A1 19820128; DE 3021698 C2 19820609; JP S5726397 A 19820212; US 4406031 A 19830927

DOCDB simple family (application)

EP 81104312 A 19810604; DE 3021698 A 19800610; JP 8796881 A 19810608; US 27182481 A 19810609