

Title (en)
Heat exchange element.

Title (de)
Wärmetauscherelement.

Title (fr)
Élément échangeur de chaleur.

Publication
EP 0084701 A1 19830803 (EN)

Application
EP 82305862 A 19821104

Priority
• GB 8200682 A 19820111
• GB 8205946 A 19820301

Abstract (en)
A heat exchange element comprises an inner tube (51) and an outer tube (54) surrounding the inner tube and defining an annular space therewith. The end regions of the outer tube are tapered and are in sealing relationship with the exterior surface of the inner tube (51) by means of resilient grommets (60). The heat exchange element is formed from cylindrical inner and outer tubes by a method which involves positioning at each end of the assembly of inner and outer tubes a die (57) having an aperture (58) for receiving the inner tube (51) and a bearing surface for engagement with a respective end of the outer tube (54). The dies (57) are moved towards one another so as to cause the ends of the outer tube (54) to travel radially inwardly along the bearing surfaces into a position in engagement with the grommets (60).

IPC 1-7
F28D 7/10; **B21D 53/06**

IPC 8 full level
B21D 53/06 (2006.01); **F28D 7/10** (2006.01)

CPC (source: EP)
B21D 53/06 (2013.01); **F28D 7/106** (2013.01)

Citation (search report)
• [X] US 4306617 A 19811222 - LANCASTER ARTHUR
• [X] FR 1162651 A 19580916 - MODINE MFG CO
• [Y] CH 280011 A 19511231 - WESTINGHOUSE FREINS & SIGNAUX [FR]
• [A] GB 1384606 A 19750219 - CTC AB

Cited by
DE102004035955A1; DE3702963A1; SE544039C2; SE2050529A1; WO2021225506A1; WO2009063234A1

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
EP 0084701 A1 19830803; AU 9062982 A 19830721

DOCDB simple family (application)
EP 82305862 A 19821104; AU 9062982 A 19821116