

Title (en)

Two-pass shell and tube heat exchanger with rod baffle support.

Title (de)

Gehäuse- und Rohrwärmetauscher mit zwei Strömungsdurchgängen und Stabschirmstütze.

Title (fr)

Echangeur de chaleur à enveloppe et tubes avec deux passages et tiges-écran support.

Publication

EP 0559191 A1 19930908

Application

EP 93103478 A 19930304

Priority

US 84664192 A 19920305

Abstract (en)

A two-pass shell and tube heat exchanger (10) having a tube bundle (30) with a longitudinal baffle (40) which that separates that tube bundle (30) into a first pass of tubes and a second pass of tubes is retrofitted with at least one rod baffle in order to provide additional support for the tubes of the tube bundle (40). The rod baffle (60) comprises a semi-circular baffle ring that can be fixedly secured to a baffle cross-ring so as to circumscribe either the first pass of tubes or the second pass of tubes with a plurality of rods (64) extending vertically from the semi-circular baffle ring to the baffle cross-ring so as to provide support for either the first pass of tubes or the second pass of tubes. The baffle cross-ring is provided with a plurality of holes (86) passing through the inner face thereof so that one end of each of the plurality of rods (64) can be positioned within one of the plurality of holes (86) so that each rod (64) is fixedly secured to the baffle cross-ring without the necessity for welding at the interior of the tube bundle (30). Methods of constructing the described apparatus are also disclosed. <IMAGE>

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CPC (source: EP)

F28D 7/06 (2013.01); **F28F 9/0132** (2013.01)

Citation (search report)

- [A] US 5058664 A 19911022 - GENTRY CECIL C [US]
- [A] US 4429739 A 19840207 - GENTRY CECIL C [US], et al

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CN107796247A; EP0661510A1; CN112815760A; CN113432454A

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