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(54) Static mixer-heat exchanger

(57) A device for effecting transfer from a first fluid medium to a second fluid medium and for enhancing mixing and uniform distribution of the second fluid medium within the confines of a conduit. The device includes providing a core pipe (31,47,55) for receiving the first fluid medium and a series of helically wound tubes

(32-38,48,54) in fluid communication with the core pipe (31,47,55) along the longitudinal axis of the conduit. The second fluid passes within the conduit and is mixed by virtue of the static mixing effect of the helically wound tubes (32-38,48,54) and engages in heat transfer as a result of the intimate contact between the second fluid, the core pipe and the helically wound tubes.

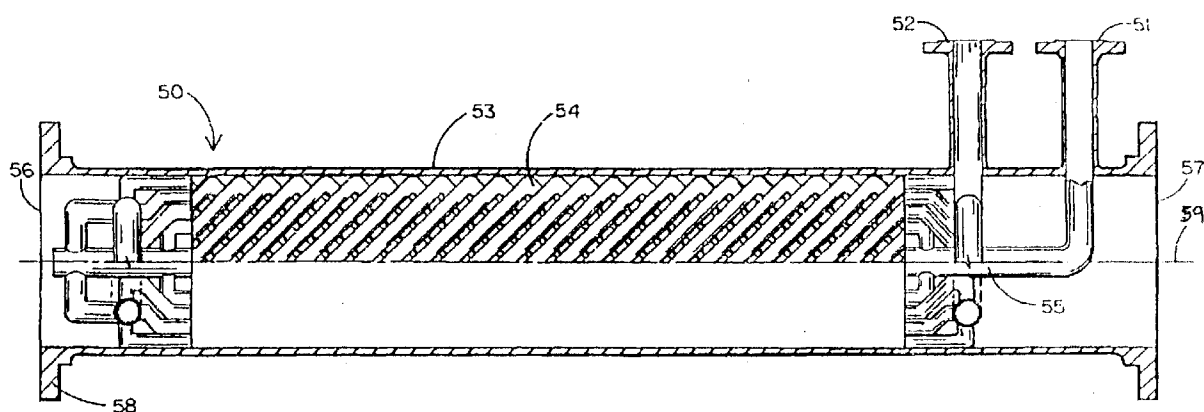


FIG. 5a

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EUROPEAN SEARCH REPORT

Application Number
EP 98 30 4556

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 31 March 1999	Examiner Mootz, F
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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