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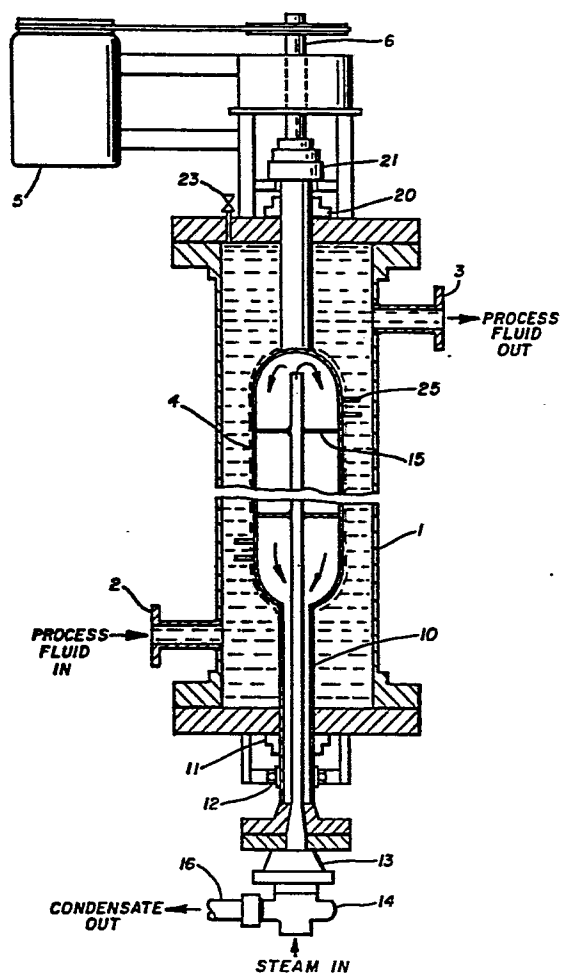
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(54) **Apparatus for heating and mixing high viscosity fluids.**

(57) An apparatus for heating a highly viscous slurry including an axially elongated hollow housing (1) through which the slurry to be heated flows and a heat exchanger (4) through which a heating fluid is passed disposed within the housing so that slurry flowing axially therethrough must pass over the heat exchanger, characterized in that the heat exchanger comprises an elongated, bulb-shaped chamber 4 mounted on a rotating shaft (6) disposed coaxially within and extending through the housing. The heating fluid enters the chamber (4) through an inlet passage extending through the neck (10) of the shaft (6) and leaves the chamber (4) through an outlet passage also extending through the neck (10) of the shaft (6). A plurality of pins (25) may be mounted to extend radially outward from the external surface of the chamber (4) to continuously stir the slurry and enhance heat exchange.





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EUROPEAN SEARCH REPORT

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EP 82 11 0659

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
X	US-A-3 285 330 (W.L. ROOT) * column 1, lines 37-60; claim 1; figures 1-4 *	1,2,3	F 23 K 1/04 F 28 D 11/02
X	BE-A- 776 607 (STORD BARTZ INDUSTRI AIS) * claim 1; figure 1 *	1-3	
X	FR-A-2 207 265 (H. LIST) * page 1, lines 1-16; page 4, lines 6-10; figures 1,2 *	1-3	
X	US-A-3 500 901 (W.L. ROOT) * claim 1; figures 1,2 *	1-3	
Y	FR-A-1 334 107 (COMBUSTION ENGINEERING) * page 1, left-hand column *	1-3	TECHNICAL FIELDS SEARCHED (Int. Cl. 3)
Y	EP-A-0 031 604 (CONSTRUCTIE VANDEKERCKHOVE) * page 2, lignes 19-29; figures 1,3 *	1-3	F 23 K F 28 D F 28 F B 01 F
A	GB-A-1 250 984 (CHEMISCHE WERKE BUNA) -----		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 19-12-1983	Examiner JEST Y.G.A.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p>			