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DE FR GB

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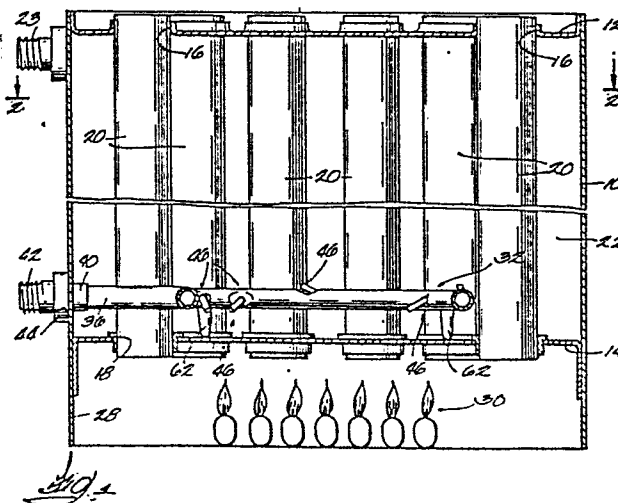
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54 **Water heater construction and method of heating water.**

57 A water heater including a tank having a hot water outlet (23) in the top portion thereof and a cold water inlet (36) in the lower portion thereof. An agitator assembly (32) connected to the cold water inlet and mounted in the bottom portion of the tank. The agitator assembly (32) includes a circular tubular member (36) having a first row of orifice members mounted along the inner side thereof, a second row of orifice members mounted along the outer side thereof and a third row of orifice members mounted along the top side thereof. The orifice members are all directed in the same direction with respect to the axis of the circular tubular member (36) to produce a swirling action in the bottom portion of the tank each time hot water is drawn out of the hot water outlet, such swirling action being effective to cause solid materials which have either settled to the bottom or are in the process of settling to the bottom to be maintained in suspension in the water so that ultimately at least a portion of such materials will be carried upwardly in the tank and out the hot water outlet.





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. <sup>3</sup> )												
A,D	US-A-4 263 879 (J.R. LINDAHL) ---		F 24 H 1/20 F 24 H 9/12												
A,D	US-A-4 157 077 (J.R. LINDAHL) ---														
A,D	US-A-4 257 355 (R.E. COOK) -----														
			TECHNICAL FIELDS SEARCHED (Int. Cl. <sup>3</sup> )												
			F 24 H												
The present search report has been drawn up for all claims															
Place of search THE HAGUE		Date of completion of the search 28-02-1985	Examiner VAN GESTEL												
<table border="0"><tr><td>CATEGORY OF CITED DOCUMENTS</td><td>T : theory or principle underlying the invention</td></tr><tr><td>X : particularly relevant if taken alone</td><td>E : earlier patent document, but published on, or after the filing date</td></tr><tr><td>Y : particularly relevant if combined with another document of the same category</td><td>D : document cited in the application</td></tr><tr><td>A : technological background</td><td>L : document cited for other reasons</td></tr><tr><td>O : non-written disclosure</td><td>&amp; : member of the same patent family, corresponding document</td></tr><tr><td>P : intermediate document</td><td></td></tr></table>				CATEGORY OF CITED DOCUMENTS	T : theory or principle underlying the invention	X : particularly relevant if taken alone	E : earlier patent document, but published on, or after the filing date	Y : particularly relevant if combined with another document of the same category	D : document cited in the application	A : technological background	L : document cited for other reasons	O : non-written disclosure	& : member of the same patent family, corresponding document	P : intermediate document	
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