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(54) Title: BLOWOFF TANK

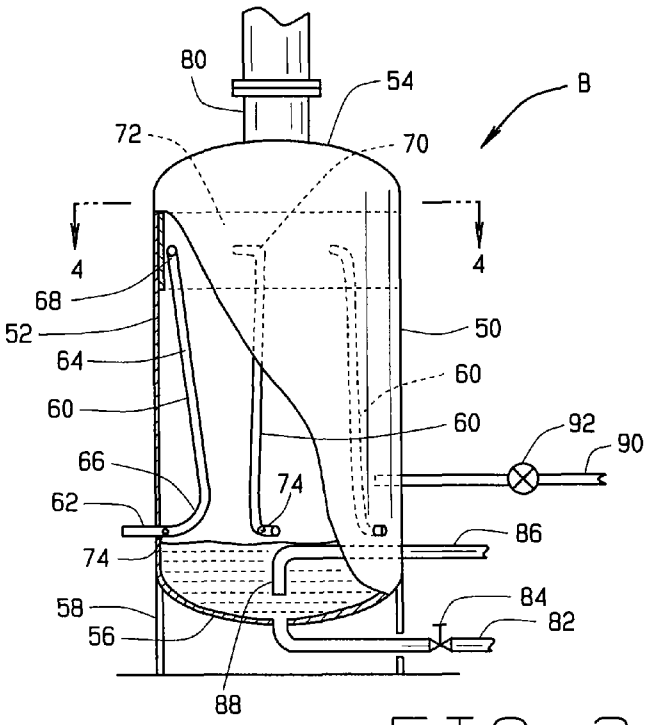


FIG. 3

(57) Abstract: A blowoff tank (B) for receiving blowdown, blowoff, and drain water from an HRSG (C) or other type of boiler, so as to lower the temperature of that water enough to enable it to be discharged into a sewer system, includes a generally cylindrical vessel (50) and inlet pipes (60) through which the blowdown, blowoff, and drain water is introduced into the vessel. Each pipe has a radial segment (62) that passes through the sidewall (52) of the vessel, a generally vertical segment (64) that extends upwardly within the vessel, and a tangential segment (68) that opens into the vessel. The radial segment contains a small drain aperture (74). The tank also has a cooling line (90) through which cooling water is introduced into the vessel to lower the temperature of the blowdown, blowoff, and drain water in the vessel and a drain line (86) that drains the mixture of cooling water and blowdown, blowoff, and drain water from the vessel, but never exceeds the elevation of the apertures in the inlet pipes. Thus, once blowdown, blowoff, and draining are completed, water will drain from the inlet pipes and from lines connected to them, all into vessel and thereby reduce a source of corrosion and a cause of water hammer in the lines.

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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2004 113886 A (MITSUBISHI HEAVY IND LTD) 15 April 2004 (2004-04-15) figure 1 abstract	1-11
A	GB 2 368 628 A (SPIRAX SARCO LTD [GB]) 8 May 2002 (2002-05-08) figure 1	1-11

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☒ See patent family annex.

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JP 2004113886 A	15-04-2004	NONE	
GB 2368628 A	08-05-2002	NONE	