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(54) Title: CLEAR WATER STORAGE TANK WITH BUILT-IN FILTER

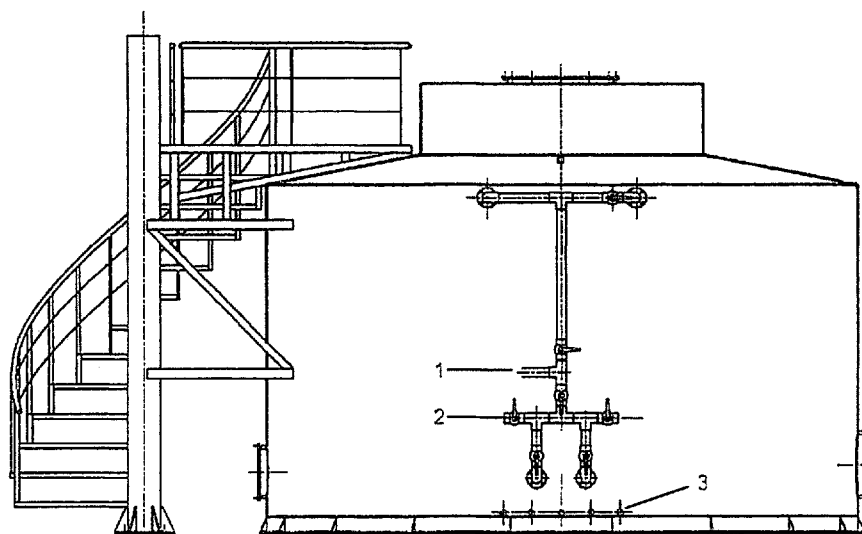


Figure 1

(57) Abstract: A clear water storage tank with built-in filter having a cylindrical shape wherein the tank top cover comprising a hole in order to install the filter at the center of the tank alongside the height of the tank top cover down to the bottom of the tank wherein the top side portion of the tank consisting of 2 outlets to connect the fresh water pipe, and the side of the tank's center portion consisting of 2 outlets, wherein one outlet is for connecting a raw water pipe for filtration and the other outlet is for connecting a water testing pipe for the process of the initial water quality test, wherein all 4 outlets having a connective pipe and the water flow in each process is controlled by a valve. The side of the tank bottom portion is adjacent to the tank floor which comprise a water drainage outlet for each portion in order to drain the tank cleaning waste water, the upper filter backwashing water, the center filter backwashing water, the upper filter backwashing water, and the overflow water from the storage tank. In combination of 5 outlets together, wherein all the front valves are integrated in order to combine all the water management system in to one unit.

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According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CNABS;CNTXT;CNKI;DWPI;SIPOABS:filter,aeration,tank,sedimentation,tank,pipe,inlet,outlet,drainage,valves.		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN 105330058 A (BEIJING GUODIAN FUTONG SCI & TECHNOLOGY) 17 February 2016 (2016-02-17) description, paragraph 30-47, figure 1	1
A	CN 104556446 A (LIFENG OCEANIC ENG TIANJIN CO LTD) 29 April 2015 (2015-04-29) description, paragraphs 20-37, figures 1-3	1
A	CN 202015528 U (GUANGXI BOSHIKE ENVIRONMENTAL PROTECTION) 26 October 2011 (2011-10-26) description, paragraphs 16-28, figures 1-3	1
A	CN 204233833 U (NANTONG TIANLAN ENVIRONMENTAL PROTECTION) 01 April 2015 (2015-04-01) the whole document	1
A	CN 203355401 U (SHANGHAI ZHENGZE ENVIRONMENTAL PROTECTION TECHNOLOGY CO LTD) 25 December 2013 (2013-12-25) the whole document	1
A	CN 104307222 A (CHENGDU RUI FENSI BIOLOGICAL TECHNOLOGY) 28 January 2015 (2015-01-28) the whole document	1
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
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Patent document cited in search report			Publication date (day/month/year)	Patent family member(s)			Publication date (day/month/year)
CN	105330058	A	17 February 2016	CN	105330058	B	20 October 2017
CN	104556446	A	29 April 2015	None			
CN	202015528	U	26 October 2011	None			
CN	204233833	U	01 April 2015	None			
CN	203355401	U	25 December 2013	None			
CN	104307222	A	28 January 2015	None			
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