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(54) Title: THE IDEAL LIQUID COMPRESSION REFRIGERATION CYCLE

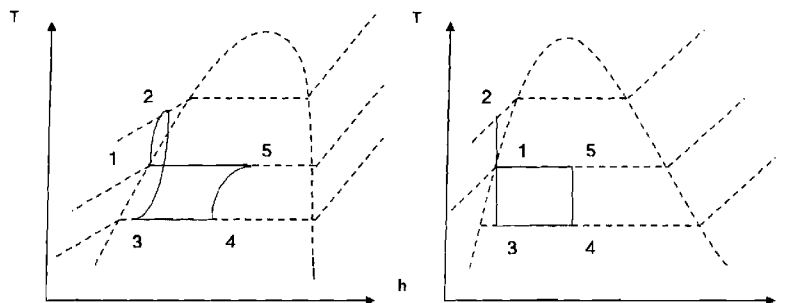


Fig-1

(57) Abstract: Liquid compression cycle (LCC) is one of the cycles, that can be applied in the refrigeration applications, this cycle has achieved the coefficient of performance of the reversed Carnot cycle, unlike the vapor compression cycle, where a clear deviation from the reversed Carnot cycle is appeared in its ideal case, these deviations from the rev- Carnot cycle have been solved in the Liquid Compression Cycle (LCC) to achieve a thermal efficiency more than the Vapor Compression Cycle (VCC) efficiency.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - F25B 13/00, F25B 13/00, F25B 27/00, F25B 11/02, F25D 9/00, F04B 25/00 (2017.01) CPC - F25B13/00, F25B23/00, F25B13/00, F25B27/00, F25B11/02, F25D9/00, F04B25/00, F25B1/10 According to International Patent Classification (IPC) or to both national classification and IPC		
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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.
X	CN 1683842 A (SHENZHEN QINGHUA UNIV OF RES I) 19 October 2005 (19.10.2005), entire document, especially Fig. 2; page 3, paragraph 3; page 2, paragraph 4; page 1, paragraph 5;	1-4
X	US 2006/0242992 A1 (Nicodemus) 02 November 2006 (02.11.2006), entire document, especially Fig. 1, 2, 3; para[0013]; para[0029]; para[0033];	1-4
A	US 2009/0183517 A1 (Ino et al.) 23 July 2009 (23.07.2009), entire document	1-4
A	US 8,141,381 B2 (Ino et al.) 27 March 2012 (27.03.2012), entire document	1-4
A	US 7,845,190 B2 (Pearson) 07 December 2010 (07.12.2010), entire document	1-4
A	US 5,819,554 A (Glen) 13 October 1998 (13.10.1998), entire document	1-4
A	US 5,343,711 A (Kornhauser et al.) 06 September 1994 (06.09.1994), entire document	1-4
A	US 2007/0163293 A1 (Ikegami et al.) 19 July 2007 (19.07.2007), entire document	1-4
A	US 2011/0225990 A1 (Sinha) 22 September 2011 (22.09.2011), entire document	1-4
T	WO 2016/134731 A2 (Hossain) 01 September 2016 (01.09.2016), entire document	1-4
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