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PATENT(S)

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Please record the attached original documents or copy thereof.

1. Name of conveying parties: Hisatoshi HIROTA Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): TGK Co., Ltd. 1211-4 Kunugida-Cho Hachioji-shi Tokyo 193-0942, JAPAN Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: <u>November 26, 1998</u>			
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No. 09/179,775 B. Patent No.(s) Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Nilles & Nilles, S.C. Firstar Center 777 East Wisconsin Avenue, Suite 2000 Milwaukee, Wisconsin 53202-5345		6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41): \$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number <u>14-1080</u> (Attach duplicate copy of this page if paying by deposit account)	
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9. Statement and signature. <i>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.</i> <u>James E. Nilles</u> <u>James E. Nilles</u> <u>December 23, 1998</u> Name of Person Signing Signature Date Total number of pages including cover sheet: <u>2</u>			

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PATENT
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ASSIGNMENT

WHEREAS, I, **Hisatoshi Hirota**, have made a certain new and useful invention for which I am about to make application for Letters Patent of the United States, which application may be identified in the United States Patent Office as Serial No. 09/179,775, filed on October 27, 1998 and, entitled:

A REFRIGERATING CYCLE

(Executed: November 26, 1998)

WHEREAS, TGK, Co., Ltd., a corporation organized and existing under and by virtue of the laws of Japan and having its principal place of business in Tokyo, Japan is desirous of acquiring the entire interest in and to said invention, said application and the Letters Patent to be obtained therefor;

NOW, THEREFORE, for and in consideration of One Dollar and other good and valuable consideration to me in hand paid, the receipt and sufficiency whereof are hereby acknowledged. I have sold, assigned, and set over and by these presents do hereby sell, assign, and set over unto the said TGK Co., Ltd. and said assignee's legal representative, successors and assigns, the entire right, title and interest in and to any and all applications including the aforesaid application, for Letters Patent heretofore and hereafter filed in the United States or any other country and which may be based in whole or in part on said inventions and discoveries, and in and to any and all Letters Patent heretofore or hereafter granted by the United States or any other country and which may be based in whole or in part on said inventions and discoveries, said assignment including the right to file and prosecute any and all such applications and also including the right to sue and recover for any and all such applications and also including the right to sue and recover for any and all infringements of said patents; and request the Commissioner of Patents to issue said Letters Patent to the above-mentioned assignees agreeably with the terms of this assignment.

I HEREBY AUTHORIZE the law firm of Nilles & Nilles, S.C. the power to insert in this instrument any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

UPON SAID CONSIDERATION, I do hereby covenant for myself and my heirs, legal representatives and assigns that neither I nor any of my said heirs, legal representatives or assigns have or will execute any instrument or perform any act in conflict herewith and that I or my said heirs, legal representatives and assigns will at all times do such acts and execute such papers, without expense to myself, as may be necessary or desirable in order to fully protect said inventions and discoveries for the benefit of said assignee, its successors or assigns, and to otherwise carry into full force and effect the text and interest of this assignment.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my seal this 26 day of 11, 1998.

Hisatoshi Hirota (SEAL)
Hisatoshi Hirota

NILLES & NILLES, S.C.

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