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Patent and Trademark OfficeDocket No.: YH008-US1

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8-2400

To the Commissioner for Patents: Please record the attached original document(s) or copy(ies) thereof.

Submission Type: <b>New</b>		Conveyance Type: <b>Assignment</b>	
		If "Other," specify:	
Reel/Frame #	(if applicable)	Document ID #	(if applicable)
Name of conveying party(ies):		Execution Date	
1. <b>Takashi Hasunuma</b>		<b>08/03/2000</b>	
2. <b>Atsushi Watanabe</b>		<b>07/10/2000</b>	
3. <b>Kazuo Osaki</b>		<b>07/11/2000</b>	
4. <b>Fumiyoshi Yoshinari</b>		<b>07/17/2000</b>	
5.			
Name and address of receiving party(ies):			
Name: <b>Tyco Electronics Raychem K.K.</b>			
Address: <b>5-8 Hisamoto 3-chome</b>			
<b>Takatsu-ku, Kawasaki-shi</b>			
<b>KANAGAWA 213-8535</b>			
<b>JAPAN</b>			
Mark if additional name(s) of conveying party(ies) attached: <input type="checkbox"/>		Mark if additional name(s) of receiving party(ies) attached: <input type="checkbox"/>	
Patent application number(s) or patent number(s):			
If this document is being filed with a <u>new</u> patent application, enter here the date the patent application was signed by the first named executing inventor:			
Patent Application Number(s):		Patent Number(s):	
<b>09/508,940</b>			
Name and address of party to whom correspondence concerning this submission should be addressed:		Total number of properties involved: <b>1</b>	
Name: <b>Marguerite E. Gerstner</b>		Total fee (37 C.F.R. §3.41) \$ <b>40.00</b>	
Address: <b>Tyco Electronics Corporation</b>		<i>The Commissioner is hereby authorized to charge the above fee against the deposit account entered below. The Commissioner is further authorized to charge any deficiencies against, or to credit any overpayment to, such deposit account.</i>	
<b>Intellectual Property Law Dept.</b>			
<b>307 Constitution Dr., Mail Stop R20/1B</b>		Deposit Account number: <b>18-0560</b>	
<b>Menlo Park, CA 94025-1164</b>			
Telephone: <b>650-361-2483</b>			
Total number of pages submitted, including cover sheet, document(s) and attachment(s): <b>2</b>			
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. Charges to deposit account are authorized, as indicated herein.</i>			
<b>Marguerite E. Gerstner</b>		<i>Marguerite E. Gerstner</i>	
Name of Person Signing		Signature	
Registration No.: <b>32,695</b>		<i>August 18, 2000</i>	
		Date	
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## CERTIFICATE OF MAILING (37 CFR 1.8)

I hereby certify that this paper or fee is being deposited with the United States Postal Service in an envelope addressed to the Commissioner for Patents, Washington, DC 20231, on the date indicated below:

Date of deposit: August 18, 2000Name (printed): Shirley ChristensenSignature: *Shirley Christensen*Send to: Box Assignment, Assistant Commissioner for Patents, Washington DC 20231 (or, for new application, "Box Patent Application")

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PATENT  
REEL: 011133 FRAME: 0469

**ASSIGNMENT**

WHEREAS, I/we, Takashi Hasunuma, Atsushi Watanabe, Kazuo Osaki, Fumiyoshi Yoshinari ("INVENTOR(S)"), citizen(s) of Japan, Japan, Japan, Japan, respectively, and residing at 6-15-10 Tamatsukuri, Narita City, Chiba Prefecture 286-0011, JAPAN, 476-125, Ayunosato, Udani, Aihara, Goshiki-cho, Tsuna-gun, HYOGO 656-1314 JAPAN, 281-47, Nagata, Shitori, Midori-cho, Mihara-gun, HYOGO 656-0152 JAPAN, 1-2-6, Kitayasocho, Tokushima-shi, TOKUSHIMA 770-0006 JAPAN, respectively, have made a new and useful invention that is the subject of an application for United States Letters Patent thereon ("APPLICATION"), entitled

**Battery Pack and PTC Device Incorporated in Battery Pack**

- ☐ for which I/we have this day executed the application papers for submission concurrently herewith to the US Patent Office; and
- ☒ which was filed on March 17, 2000 and has been assigned U.S. Application Serial No. 09/508,940; and

WHEREAS,

TYCO ELECTRONICS RAYCHEM K.K. ("TYCO"), a corporation organized and existing under and by virtue of the laws of Japan, having its principal place of business at 5-8, Hisamoto 3-chome, Takatsu-ku, Kawasaki-shi KANAGAWA 213-8535, JAPAN, and

Sanyo Electric Co. Ltd. ("SANYO"), a corporation organized and existing under and by virtue of the laws of Japan, having a place of business at 5-5 Keihan-Hondoori 2-chome, Moriguchi-shi, OSAKA 570-8677 JAPAN;

are desirous of acquiring the exclusive joint right, title, and interest in and to the APPLICATION and in and to any Letters Patent to be granted and issued therefor in the United States of America and its territories and possessions, and all countries foreign thereto;

NOW THEREFORE, for a valuable consideration, the receipt of which is hereby acknowledged, I/we, the INVENTOR(S), do hereby sell, assign, transfer, and set over unto the said TYCO and SANYO, their respective successors and assigns, the full and exclusive joint right, title and interest in and to the APPLICATION and in and to any and all Letters Patent to be granted and issued therefor, not only for, to and in the United States of America, its territories and possessions, but also for, to and in all other countries including all priority rights under the International Convention; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent jointly to said TYCO and SANYO, their respective successors and assigns, in accordance with this Assignment.

Name	Signature	Date
Takashi Hasunuma	<i>Takashi Hasunuma</i>	8/3/00
Atsushi Watanabe	<i>Atsushi Watanabe</i>	7/10/00
Kazuo Osaki	<i>Kazuo Osaki</i>	7/11/00
Fumiyoshi Yoshinari	<i>Fumiyoshi Yoshinari</i>	7/17/00