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U.S. Department of Commerce
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Attorney Docket No. 01096.0143

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07 APR 2000

To the Honorable Commissioner of Patents and Trademarks
Please record the attached original documents or copy thereof.

ATTN. BOX ASSIGNMENTS

1. Name of conveying party(ies): Midori SAKAMOTO and Kazuhiro KUROGI		2. Name and address of receiving party(ies): Name: <u>ASAHI KASEI KOGYO KABUSHIKI KAISHA</u>	
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Internal Address:	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name		Street Address: <u>2-6, Dojimahama 1-chome, Kita-ku, Osaka-shi, Osaka 530-8205, Japan</u>	
<input type="checkbox"/> Other		City:	
Execution Date: <u>April 1, 2000</u>		State: _____ Zip Code: _____	
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: <u>April 1, 2000</u>		Additional name(s) & Address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
A. Patent Application Number(s):		B. Patent Number(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: Name: <u>Mr Ernest F. Chapman</u>		6. Total number of applications and registrations involved: <u>1</u>	
Internal Address: <u>FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.</u>		7. Total fee (37 CFR 3.41): <u>\$40</u> <input checked="" type="checkbox"/>	
Street Address: <u>1300 I Street, N.W.</u>		Enclosed (Please charge deficiency to deposit account) <input type="checkbox"/>	
City: <u>Washington</u>		Authorized to be charged to deposit account	
State: <u>DC</u> Zip: <u>20005-3315</u>		8. Deposit account number: <u>06-0916</u>	
9. Statement and signature. 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.			
<u>Ernest F. Chapman</u>		<u>April 7, 2000</u>	
Signature		Date	
Total number of pages including cover sheet, attachments and documents: <u>2</u>			

A S S I G N M E N T

WHEREAS I/we, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

ELECTRONIC DELAY DETONATOR

for which I/WE executed an application for United States Letters Patent concurrently herewith or on _____ or filed an application for United States Letters Patent on _____, 19____ (Serial No. _____); and

WHEREAS, ASABI KASEI KOGYO KAB SHIKI KAISHA, a corporation of Japan, whose post office address is 1-6, Dojimahama 1-chome, Kita-ku, Osaka-shi, Osaka 530-8205 Japan (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

AND, I/WE HEREBY authorize and request the attorneys I/we have empowered in the Declaration and Power of Attorney in this application, to insert here in parentheses (Application No. _____, filed _____) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s).

1. Full Name of Sole or First Assignor : Assignor's Signature <u>Midori Sakamoto</u>	: <u>Midori Sakamoto</u>	: Date <u>April 1, 2000</u>
Address <u>490-6, Sakuragaoka 2-chome, Nobeoka-shi, Miyazaki 882-0907 Japan</u>	: <u>citizenship</u> <u>Japanese</u>	
2. Full Name of Second Assignor : Assignor's Signature <u>Ezuchi Kurogi</u>	: <u>Ezuchi Kurogi</u>	: Date <u>April 1, 2000</u>
Address <u>4-9-405, Midorigaoka 2-chome, Nobeoka-shi, Miyazaki 882-0863 Japan</u>	: <u>Citizenship</u> <u>Japanese</u>	
3. Full Name of Third Assignor : Assignor's Signature	:	: Date
Address	:	: <u>Citizenship</u>

FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P. • WASHINGTON, D.C.