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U.S. PATENT AND TRADEMARK OFFICE

Case Docket No. 001138

U.S. DEPARTMENT OF COMMERCE

09655869

Patent and Trademark Office

RECORDATION FORM COVER SHEET **PATENTS ONLY**

To the Director of Patents and Trademarks.

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Tetsuya HIGUCHI, Takio KURITA, Hidenori SAKANASHI and Masaharu TANAKA

Additional name(s) of conveying party(ies) attached? NO

2. Name and address of receiving party(ies):

(1) Name: JAPAN AS REPRESENTED BY SECRETARY OF AGENCY OF INDUSTRIAL SCIENCE AND TECHNOLOGY

Street Address: 3-1, Kasumigaseki 1-chome, Chiyoda-ku,

Tokyo 100-8921, Japan

(2) Name: MITSUBISHI HEAVY INDUSTRIES, LTD.

Street Address: 5-1, Marunouchi 2-chome, Chiyoda-ku,

Tokyo, Japan

(3) Name: TETSUYA HIGUCHI

Street Address: 2-706-203, Azuma, Tsukuba, Ibaraki, Japan

(4) Name: TAKIO KURITA

Street Address: 3628-20, Kandatsumachi, Tsuchiura, Ibaraki, Japan

Additional name(s) & address(es) attached? NO

3. Nature of conveyance: Assignment (Two executed Assignments are enclosed).

Execution Date: August 27, 27, 27 and 28, 2000

PATENT

REEL: 011069 FRAME: 0220

4. Title: APPARATUS FOR PERFORMING LOSS-LESS COMPRESSION-CODING OF ADAPTIVE EVOLUTION TYPE ON IMAGE DATA			
5. 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: August 27 and 28, 2000			
A. Patent Application No.(s) B. Patent No.(s)			
Additional numbers attached? NO			
6. Name and address of party to whom correspondence concerning document should be mailed:			
Name: Armstrong, Westerman, Hattori, McLeland & Naughton Suite 1000 1725 K Street, N.W. Washington, D.C. 20006			
7. Total number of applications and patents involved: 1			
8. Total fee (37 CFR 3.41) \$ 40.00			
XX Check enclosed			
9. Deposit Account No.: 01-2340			

10. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any strucked copy is a true copy of the original document.

Date: September 6, 2000

William F. Westerman

Reg. No.: 29,988

Total number of pages including cover sheet: 7

WFW/yap

In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

APPARATUS FOR PERFORMING LOSS-LESS COMPRESSION-CODING OF ADAPTIVE EVOLUTION TYPE ON IMAGE DATA

sell and assign to

- 1. JAPAN as represented by SECRETARY OF AGENCY OF INDUSTRIAL SCIENCE AND TECHNOLOGY, a Japanese government agency, located at 3-1, Kasumigaseki 1-chome, Chiyoda-ku, Tokyo 100-8921 Japan;
- 2. MITSUBISHI HEAVY INDUSTRIES, LTD., a Japanese corporation, having a place of business at 5-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan;
- 3. Tetsuya Higuchi, a Japanese citizen of 2-706-203, Azuma, Tsukuba, Ibaraki, Japan;
- 4. Takio Kurita, a Japanese citizen of 3628-20, Kandatsumachi, Tsuchiura, Ibaraki Japan;

their successors, and assigns or nominees, hereinafter referred to as 'Assignee,' 26.1%, 49%, 18.7% and 6.2%, respectively, of my entire right, title and interest in and to said invention as disclosed, shown and described in said application for United States patent:

(check one)	[X]	executed concurrently	herewith;	
	[]	executed on	;	
	[]	Application No.	, filed	;

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document.

Armstrong, Westerman, Hattori, Mcleland & Naughton, Suite 1000, 1725 K Street, N.W., Washington, D.C. 20006

Jetsuja Hignehi Tetsuya Higuchi	August 27, 2000
Tetsuya Higuchi	Date
[2nd Inventor] Residence and Post Office Address: 3628-20 Citizenship: Japan), Kandatsumachi, Tsuchiura, Ibaraki, Japan
Takis Kut	August 27, 2000
T-1-i- Vika	Date
Takio Kurita [3rd Inventor] Residence and Post Office Address: 2-712-1 Citizenship: Japan	
[3rd Inventor] Residence and Post Office Address: 2-712-1 Citizenship: Japan Halmai Jakanashi	102, Azuma, Tsukuba, Ibaraki, Japan August 27, 2000
[3rd Inventor] Residence and Post Office Address: 2-712-1 Citizenship: Japan Halma Jakanashi	102, Azuma, Tsukuba, Ibaraki, Japan
[3rd Inventor] Residence and Post Office Address: 2-712-1 Citizenship: Japan Holman Hakanashi Hidenori Sakanashi	102, Azuma, Tsukuba, Ibaraki, Japan August 27, 2000 Date GOYA Machinery Works MITSUBISHI HEAVY IN

RECORDING OFFICER:

After recording, please return to: Armstrong, Westerman, Hattori, Mcleland & Naughton Suite 1000, 1725 K Street, N.W., Washington, D.C. 20006 In consideration of value received, I, having a residence as stated below above my name, the sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are listed below) of an invention described in an application for United States patent entitled:

APPARATUS FOR PERFORMING LOSS-LESS COMPRESSION-CODING OF ADAPTIVE EVOLUTION TYPE ON IMAGE DATA

sell and assign to

- 1. JAPAN as represented by SECRETARY OF AGENCY OF INDUSTRIAL SCIENCE AND TECHNOLOGY, a Japanese government agency, located at 3-1, Kasumigaseki 1-chome, Chiyoda-ku, Tokyo 100-8921 Japan;
- 2. MITSUBISHI HEAVY INDUSTRIES, LTD., a Japanese corporation, having a place of business at 5-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan;
- 3. Tetsuya Higuchi, a Japanese citizen of 2-706-203, Azuma, Tsukuba, Ibaraki, Japan;
- 4. Takio Kurita, a Japanese citizen of 3628-20, Kandatsumachi, Tsuchiura, Ibaraki Japan;

their successors, and assigns or nominees, hereinafter referred to as 'Assignee,' 26.1%, 49%, 18.7% and 6.2%, respectively, of my entire right, title and interest in and to said invention as disclosed, shown and described in said application for United States patent:

(check one)	[X]	executed concurrently herewith;		
	[]	executed on	· 1	
	[]	Application No.	, filed	;

and in and to all applications for patent and patents for invention including all divisions, reissues, continuations, substitutes and extensions thereof and all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property, including rights of priority, resulting from the filing of any of said applications; and I authorize and request any official whose duty is to issue patents, to issue any patent on said invention or resulting therefrom to said Assignee, and I agree that on request and without further consideration, but at the expense of said Assignee, I will communicate to said Assignee or its representatives all facts known to me respecting said invention and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing, continued prosecution, reissue, or other applications, make all rightful oaths and declarations, and generally do everything possible to aid said Assignee to obtain and enforce proper patent protection for said invention.

I hereby grant the following law firm the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the Rules of the U.S. Patent and Trademark Office for recordation of this document.

Armstrong, Westerman, Hattori, Mcleland & Naughton, Suite 1000, 1725 K Street, N.W., Washington, D.C. 20006

[1st Inventor]		
Residence and Post Office Address: 2-706-	203, Azuma, Tsukuba, Ibaraki, Japan	
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[2nd Inventor]		
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 Takio Kurita	Date	
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Citizenship: Japan		
2 7 //	August 28, 2000	
Masaharu Zanaka		
Masaharu Tanaka	Date	

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After recording, please return to: Armstrong, Westerman, Hattori, Mcleland & Naughton Suite 1000, 1725 K Street, N.W., Washington, D.C. 20006

RECORDED: 09/06/2000