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Kenji OHKUMA, Hirofumi MURA		1 901 :	Name:	KABUSHIKI KAISHI TOSHIBA	
KAWAMURA and Fumihiko SANO Additional name(s) of conveying pa			Address:	72 Horikawa-cho, Saiwai-ku, Kawasaki <b>R</b> hi, JAPAN	
□ Security Agreement □ C □ Other	Merger Change of Name			JAPAN SOLVEN	
	ruary 22, 22, 26, 0	1, 2001	Additional	name(s) and address(es) attached? □Yes ■No	
<ul><li>4. Application number(s) or patent n</li><li>If this document is being filed togeth</li><li>A. Patent Application No.(s)</li></ul>	` ,		ecution da B. Patent N	26, 01, 2001	
	Additional n	 umbers attach	ed? ⊓Ves <b>I</b>	■No.	
5. Name and address of party to who concerning document should be mai	om correspondence			plications and patents involved: 1	
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Marvin J. Spivak		LJ.	mm)}}?	Selle 3/6/01	
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PATERT STAME: 0583

## ASSIGNMENT

In consideration of value received, I, having a mailing address at e/o Intellectual Property Division, KABUSHIKI KAISHA TOSHIBA, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105-8001, Japan and a residence as stated below next to 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:

ENCRYPTION APPARATUS AND METHOD, AND DECRYPTION APPARATUS AND METHOD BASED ON BLOCK ENCRYPTION

said application having been filed on and assigned Application No. ;
sell and assign to
KABUSHIKI KAISHA TOSHIBA
a corporation of Japan, having a business address at 72 Horikawa-cho, Saiwai-ku, Kawasaki-shi, Japan

its successors, assigns or nominees, hereinafter referred to as "Assignee", 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)

- imes executed concurrently herewith:
- executed separately herefrom;

and in and to all applications for patent and patents for said invention. in all countries of the world, including all divisions, reissues, continuations, substitutions 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 proceeding, sign all lawful papers, execute all divisional, continuing, 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 invension in all countries.

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.

Oblon, Spivak, McClelland, Maier & Neustadt, P.C., Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202

PATENT REEL: 011592 FRAME: 0584

## ASSIGNMENT

Inventor: (Signature)	Date	Residence
Kenji Ohkuma	FEB. 22. 2001	Yokohama-shi, Japan
Hirofumi Mucatani Hirofumi Muratani	FEB. 22. 2001	Kawasaki-shi, Japan
Shin-ichi Kawamura	FEB. 26. 2001	Kodaira-shi, Japan
Fumilia Sano Feb 1. 2001 F.S.	FEB. 1.2001	Fuchu-shi, Japan
Fliminho Suro		

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