U.S. Department of Commerce Patent and Trademark Office 2. Name and address of the receiving party(ies): SONY CORPORATION 7-35 Kitashinagawa, 6-chome, Shinagawa-Ku, Tokyo, Japan SONY ELECTRONICS INC. 1 Sony Drive Park Ridge, New Jersey 09656 Additional Names(s) and Address(es) Attached [] Yes [X] No Additional Numbers Attached? [] Yes [X] No Id be 6. Total number of Applications and Patents involved 1
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7. Total Fee (37 CFR § 3.41) \$\frac{40.00}{20}\$ [x] Enclosed [] Previously Paid [x] Authorized to be charged to Deposit Account
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PATENT REEL: 9726 FRAME: 0121

Docket No. 21650.03400

ASSIGNMENT

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, am a joint inventor of certain new and useful improvements in Method and Apparatus for Entering Data Strings Including Hangul (Korean) and ASCII Characters for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address.

AND WHEREAS, Sony Corporation, a Japanese corporation with offices at 7-35 Kitashinagawa, 6-chome, Shinagawa-ku, Tokyo, Japan and Sony Electronics Inc., a Delaware corporation with offices at 1 Sony Drive, Park Ridge, New Jersey 09656 (hereinafter referenced as ASSIGNEES) are desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries.

NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEES, their successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing to or accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEES, as the assignees of the whole right, title and interest thereto:

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEES or their designee, as ASSIGNEES or their successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the ASSIGNEES thereof shall hereafter require and prepare at their own expense;

And I further agree that ASSIGNEES will, upon their request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

personally appeared Soon Ko personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Signature of Notary

SEAL

PATENT REEL: 9726 FRAME: 0122

· CALLESON, A	
State of CALIFORNIA County of SAN DIEGO	
County of SAN DIEGO	
On JANUARY 4, 1999 before	me, TRACY MICHELLE SCON Name and Title of Officer (e.g., "Jane Doe, Notary Public") KO Name(s) of Signer(s)
personally appearedSOO ~	K O
TRACY MICHELE SISSON Commission # 1113567 Notary Public — Cofford Ventura County My Comm. Expires Oct 12, 2000 Though the information below is not required by law, it is	whose name (s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(les), and that by his/her/their signature(s) on the instrument the person(s) or the entity upon behalf of which the person(s) acted executed the instrument. WITNESS my hand and official seal. WITNESS my hand and official seal. Signature of Notary Tube. Signature of Notary Tube.
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