FORM PTO-1595 (Rev. 6-93)

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U.S. DEPARTMENT OF COMMERCE
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.	
Name of conveying party(ies): Mark R. Randel Additional name(s) of conveying party(ies) attached? _ Yes _X_ No	2. Name and address of receiving party(ies): Terminal Reality, Inc. 118 Hillside Drive Lewisville, TX 75057
3. Nature of conveyance: X Assignment _ Merger Security Agreement _ Change of Name Other Execution Date: March 8, 1999	Additional name(s) & address(es) attached? _ Yes X No
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 is:	
A. Patent Application No.(s) New application dated March 12, 1999 & Titled: IMPROVED LIGHTING AND SHADOWING METHODS AND ARRANGEMENTS FOR USE IN COMPUTER GRAPHIC SIMULATIONS. Additional numbers attached?Yes X No	B. Patent No.(s) ——
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
Thomas A. Jolly Jenkens & Gilchrist, P.C. 1445 Ross Avenue, Suite 3200 Dallas, Texas 75202-2799	7. Total fee (37 CFR 3.41): \$40.00 X Enclosed X Overpayment or underpayment of this fee is authorized to be charged to deposit account
3/22/1999 PRLLEN 00000038 09268078 4 FC:581 40.00 @P	8. Deposit account number: 10-0447
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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. Thomas A. Jolly, Reg. No. 39,241 Name of Person Signing Total number of pages including cover sheet, attachments, and document: One(1)	
Mail documents to be recorded with required cover sheet information to: Commissioner of Patents and Trademarks, Box Assignments Washington, D.C. 20231	

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"EXPRESS MAIL" Mailing Label No.EL269312649US Date of Deposit: March 12, 1999
I hereby certify that this paper or fee is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231

Type or Print Name: Thomas A. Jolly

PATENT

REEL: 9831 FRAME: 0871

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, does hereby:

SELL, ASSIGN AND TRANSFER to TERMINAL REALITY, INC. (the "Assignee"), a corporation of TEXAS, having a place of business at 118 Hillside Drive, Lewisville, TX 75057, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, entitled IMPROVED LIGHTING AND SHADOWING METHODS AND ARRANGEMENTS FOR USE IN COMPUTER GRAPHIC SIMULATIONS, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, that when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for securing, maintaining and enforcing proper patent protection for such improvements and for vesting title to such improvements in the Assignee;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

EXECUTED THIS & day of MACH, 1999.

Mark R. Randel

1925 Torrey Pine Drive

Flower Mound, TX 75028

IPDAL:204804.1/32767/8

RECORDED: 03/12/1999

PATENT REEL: 9831 FRAME: 0872