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U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

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

## 1. Name of conveying party(ies):

James F. Darrah  
Xiaoshu Xu

07/26/02

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: July 1 &amp; July 2, 2002

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

Name: 3D Systems, Inc.

Internal Address: \_\_\_\_\_

Street Address: 26081 Avenue Hall

City: Valencia State: CA Zip: 91355

Additional name(s) & address(es) attached? ☐ Yes ☒ 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: 7/1/02 7/2/02

A. Patent Application No.(s) \_\_\_\_\_

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Ralph D'Allessandro

Internal Address: 3D Systems, Inc.

Street Address: 26081 Avenue Hall

City: Valencia State: CA Zip: 91355

6. Total number of applications and patents involved: ☐ 1

7. Total fee (37 CFR 3.41).....\$ 40

- ☒ Enclosed  
☒ Authorized to be charged to deposit account

## 8. Deposit account number:

01-1615

## 9. Signature.

Rodney M. Anderson

Name of Person Signing

Signature

7/19/02 7/26/02

Date

Total number of pages including cover sheet, attachments, and documents: 3

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231PATENT  
REEL: 013144 FRAME: 0171

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JC971 U.S. PTO  
10/206647

07/26/02

**ASSIGNMENT**

WHEREAS, WE, James F. Darrah, a citizen of the United States of America; and Xiaoshu Xu, a citizen of the United States of America (each hereinafter referred to as "ASSIGNORS"), have invented a certain invention entitled **Selective Laser Sintering with Optimized Raster Scan Direction** for which application for Letters Patent of the United States of America is being made, this application having been executed on the date set forth below, and


WHEREAS, **3D SYSTEMS, INC.**, a corporation organized and existing under and by virtue of the laws of the State of California and having its principal place of business at 26081 Avenue Hall, Valencia, CA 91355 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the exclusive right, title and interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States of America, its territorial possessions and in any and all countries foreign thereto;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign, transfer, and set over unto the said ASSIGNEE, its successors and assigns, the full and exclusive right, title, and interest to said invention and to all Letters Patent or similar legal protection, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for said invention by said application or any continuation, division, renewal, substitute, or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted, including all priority rights under the International Convention; and ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent or any legal equivalent thereof to said ASSIGNEE, its successors, and assigns, in accordance with this Assignment.

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

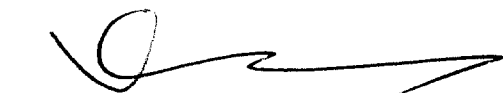
ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters patent and legal equivalents in foreign countries as may be known and accessible to ASSIGNORS and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments, or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention, and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

WITNESS my hand at Austin, Texas, this 1<sup>st</sup> day of July, 2002.

  
James F. Darrah  
Application was executed on :

July 1, 2002

WITNESS my hand at Austin, Texas, this 2<sup>nd</sup> day of July, 2002.

  
Xiaoshu Xu  
Application was executed on :

July 2, 2002