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10936 U.S. PTO  
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Commissioner for Patents: Please record the attached original document(s) or copy(ies).

1. Name of conveying party(ies): <b>Jason A. Roth</b> Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): <b>ADOBE SYSTEMS INCORPORATED</b> <b>345 Park Avenue</b> <b>San Jose, CA 95110</b>  Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:  Execution Date: <b>09/26/00</b>	

4. Application number(s) or patent number(s):  
 X If this document is being filed with a new application, the execution date of the application is: **09/26/99**

A. Patent Application No(s):	B. Patent No(s): <b>09671947</b>  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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5. Name/address of party to whom correspondence concerning document should be mailed:  <b>ROGER S. BOROVOY</b> <b>Fish &amp; Richardson P.C.</b> <b>2200 Sand Hill Road, Suite 100</b> <b>Menlo Park, CA 94025</b>	6. Total number of applications/patents involved: <b>1</b>  7. Total fee (37 CFR §3.41): <b>\$40</b> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to charge Deposit Account.  8. Deposit Account No.: <b>06-1050</b>  Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050.
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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.*

Mark D. Kirkland  
Reg. No. 40,048  
Name of Person Signing

Signature

**9/27/00**  
Date

Total number of pages including coversheet, attachments and document: **3**

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Date of Deposit September 27, 2000

PATENT  
REEL: 011142 FRAME: 0693

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR, Jason A. Roth, hereby sells, assigns, and transfers to Adobe Systems Incorporated, a Delaware Corporation, having offices located at 345 Park Avenue, San Jose, California 95110-2704, and its successors, assigns and legal representatives (collectively, "ASSIGNEE") all of the right, title and interest of ASSIGNOR throughout the world in and to any and all inventions and improvements which are the subject of a patent document entitled

PROCESSING A DIRECTED GRAPH OF OBJECTS

and which is found in

- (a)  U.S. patent application executed on SEPT. 25, 2000, entitled as above, listing the above named person as inventor.
- (b)  U.S. patent application filed on \_\_\_\_\_  
 under Application No. \_\_\_\_\_  
 with Express Mail No. \_\_\_\_\_ (Application Number not yet known).
- (c)  U.S. Patent No.: \_\_\_\_\_, issued \_\_\_\_\_.

An attorney of record, or the attorney filing the application, is authorized and requested by the execution of this assignment to insert into this assignment the execution date of the application and/or the filing date and serial number of the application when officially known.

This assignment includes the foregoing patent application or patent; all legal equivalents thereof in any foreign country and all patents issuing therefrom; all United States and foreign patents, utility models, and design registrations granted for any of said inventions and improvements; and the right to claim priority based on the filing date of the foregoing patent application or patent under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes. ASSIGNOR authorizes ASSIGNEE to apply in all countries in the name of ASSIGNOR or in the name of ASSIGNEE for patents, utility models, and design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with this assignment.

ASSIGNOR further covenants for himself and his respective heirs, legal representatives and assigns to provide to ASSIGNEE promptly upon the request of ASSIGNEE all pertinent facts and documents relating to said invention and said patents and legal equivalents as may be known and accessible to ASSIGNOR and to testify as to the same in any interference, litigation, or proceeding relating thereto and promptly to execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue or enforce said application, said inventions and improvements and said patents and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

ASSIGNOR requests the Commissioner of Patents and Trademarks to issue said patents of the United States and any reissue or extension thereof to the ASSIGNEE.

Executed this \_\_\_\_\_ Signature of Inventor

26<sup>TH</sup> day of SEPTEMBER, 2000

  
Jason A. Roth

STATE OF California )  
County of Santa Clara ) ss.

On 9-26-00, before me, Michelle Brooks, a Notary Public for the State of California, personally appeared Jason A. Roth, personally known to me or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

Witness my hand and official seal

*Michelle Rene Brooks*

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