| FORM PTO-1595 U.S. (Rev. 6-93) OMB No. 0651-0011 (exp. 4/94) | RECORDATION FO PATEN 5-29-03 | TS |)2-2003 | F COMMERCE ∫rademark Office |
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| Name and address of party Concerning document shou Name: Chantal Morgan Address: Wolf, Greenfield Federal Reserve 600 Atlantic Ave Boston, MA 022 2003 ECOOPER 00000092 5102867 2004 ECOOPER 00000092 5102867 | ild be mailed: D'Apuzzo, Ph.D. & Sacks, P.C. Plaza nue | 7. Total fee (37 C [X] Enclosed [] Authorized The Commission | to be charged to depo er is authorized to cha e enclosed payment to | \$ 40.0 |
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ASSIGNMENT

Whereas, ARCH Development Corporation having a place of business at 5640 South Ellis Avenue, Suite 405, Chicago, IL 60637 (ASSIGNOR) is the joint owner of the entire right, title and interest in and to the following United States Letters Patent(s) and/or application(s):

| Patent or Application No. | Date of Filing or Grant | | |
|---------------------------|-------------------------|--|--|
| 5,102,887 | April 7, 1992 (grant) | | |
| 6,274,591 | August 14, 2001 (grant) | | |
| 09/862,169 | May 21, 2001 (filing) | | |

Whereas, The University of Chicago having a place of business at 5640 South Ellis Avenue, Suite 405, Chicago, IL 60637 (ASSIGNEE) desires to acquire all rights in said patent(s) and/or application(s), any inventions disclosed therein, and any and all patent(s) of the United States and of all other countries which may be granted for the said inventions;

Now therefore, for good and valuable consideration, the sufficiency of which is acknowledged and the receipt of which is hereby acknowledged, ASSIGNOR does hereby sell, assign and transfer to the said ASSIGNEE its entire right, title and interest in and to the said patent(s) and application(s), all inventions therein disclosed and any and all patents of the United States and of all other countries which may be granted for the said inventions.

Said ASSIGNEE, its successors and assigns, shall have, hold and enjoy the said invention(s), application(s), and/or patent(s) to its own use and benefit as fully and entirely as the same would have been held and enjoyed had this assignment and sale not been made, including the right to sue for past infringement.

ASSIGNOR hereby authorizes and requests of the Commissioner of Patents to issue any additional Letters Patent as may be granted on the said inventions to the said Assignee in accordance with the terms of this instrument.

| 02/19/03 | COMPANY NAME: ARCH DEVELOPMENT CORPORATION | |
|---------------------------------------|---|-----------|
| Date Date | Alan P. Thomas | |
| STATE OF <u><u> </u></u> | : | |
| Subscribed and sworn to before me th | his 19th day of February, 2003. | • |
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