

11-08-1999

FORM PTO-1595 (Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Tab settings

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

1. Name of conveying party(ies): Scientific Design Company, Inc.

2. Name and address of receiving party(ies) Name: Advanced Catalyst Systems, Inc.

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

Internal Address:

3. Nature of conveyance: 40

- Assignment Merger Security Agreement Change of Name Other See attachment for brief

Street Address: 11141 Outlet Drive

Execution Date: February 10, 1997

City: Knoxville State: TN ZIP: 37932

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:

A. Patent Application No.(s)

B. Patent No.(s)

5,336,656 5,242,882 5,256,387 5,217,939

Additional numbers attached? Yes No

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

6. Total number of applications and patents involved: 4

Name: Kenneth H. Johnson

7. Total fee (37 CFR 3.41).....\$ 160.00

Internal Address:

- Enclosed Authorized to be charged to deposit account

Street Address: P.O. Box 630708

8. Deposit account number: 10-0740 160E

City: Houston State: TX ZIP: 77263

(Attach duplicate copy of this page if paying by deposit account)

11/09/1999 TTON11 00000072 100740 5336656

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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.

Kenneth H. Johnson Name of Person Signing

Signature

05/06/99 Date

Total number of pages including cover sheet, attachments, and document: 2

Page 2

Box 3. Nature of Conveyance (continued)

**Other: Record to correct receiving party's name previously
recorded at Reel 8401, Frame 0243**

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FORM PTC-1886 (Rev. 6-93)

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

1. Name of conveying party(ies):

Scientific Design Company, Inc. 49 Industrial Avenue Little Ferry, NJ 07643 Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Dr. Larry Campbell Internal Address: Advanced Catalyst Sys Inc.

3. Nature of conveyance:

- Assignment Merger Security Agreement Change of Name Other

Street Address: 11141 Outlet Drive City: Knoxville State: TN ZIP: 37932

Execution Date: December 20, 1996 Re-execution Date:

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:

- A. Patent Application No.(s) #881073 #983042 #973964 #120306 B. Patent No.(s) US 5,217,939 US 5,242,882 US 5,256,387 US 5,336,656

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

Name: Dr. Larry Campbell Internal Address: Advanced Catalyst Sys., Inc. Street Address: 11141 Outlet Drive City: Knoxville State: TN ZIP: 37932

6. Total number of applications and patents involved: 4

7. Total fee (37 CFR 3.41).....\$ 160.00 Enclosed Authorized to be charged to deposit account

8. Deposit account number: (Attach duplicate copy of this page if paying by deposit account)

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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.

Dr. Larry Campbell Name of Person Signing

Signature

2/14/97 Date

Total number of pages including cover sheet, attachments, and document

ANNEX C

Form of Patent Assignment

ASSIGNMENT OF PATENTS

Scientific Design Company, Inc., a Delaware corporation ("Assignor"), for and in consideration of the sum of One Dollar and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, transfers, sells and assigns to Advanced Catalyst Systems, Inc., a New Jersey corporation ("Assignee"), all of Assignor's right, title and interest in the four (4) U.S. Letters Patents listed below, and the underlying invention disclosed in such Letters Patents, and in any reissue and/or extension of such Letters Patents:

- US 5,336,656 - Catalyst for Production of Nitric Acid by Oxidation of Ammonia (Date of Patent - August 9, 1994)
- US 5,256,387 - Catalyst for Production of Nitric Acid by Oxidation of Ammonia (Date of Patent - October 26, 1993)
- US 5,242,882 - Catalyst for Production of Nitric Acid by Oxidation of Ammonia (Date of Patent - September 7, 1993)
- US 5,217,939 - Catalyst for Production of Nitric Acid by Oxidation of Ammonia (Date of Patent - June 8, 1993)

Assignor makes no warranties or representations in respect to the Letters Patent, or rights and interest conveyed.

Assignor will on request of Assignee execute and deliver to Assignee such other documents as are reasonably necessary to record this Assignment and the Letters Patents in the name of the Assignee.

Executed the 10th day of February, 1997.

SCIENTIFIC DESIGN COMPANY, INC.

By T.W. Towell
T.W. Towell, Executive Vice President

The foregoing instrument was acknowledged before me this 10th day of February, 1997, by T.W. Towell, Executive Vice President of Scientific Design Company, Inc. on behalf of the Assignor corporation.

Helen Corum
Notary Public

HELEN CORUM
NOTARY PUBLIC OF NEW JERSEY
MY COMMISSION EXPIRES JUNE 2, 1999