

03-26-2001



101647967



23351

PATENT TRADEMARK OFFICE

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

3-6-01
In re application of: **THEODOROUS J. DINGEMANS ET AL.** Confirmation No. 8310
Serial No.: **09/757,398** Group No.
Filed: **JANUARY 5, 2001** Examiner:
For: **LIQUID CRYSTALLINE THERMOSETS FROM ESTER, ESTER-IMIDE, AND ESTER-AMIDE OLIGOMERS**

Patent: Issued:

*NOTE: Insert name(s) of inventor(s) and title also for patent. Where recordal is with respect to a maintenance fee payment also

Patent Application
Commissioner of Patents and Trademarks
Washington, D.C. 20231

CERTIFICATION UNDER 37 CFR 1.10

I hereby certify that this "Assignment Cover Letter", along with any document referred to, is being deposited with the United States Postal Service on this date _____ in an envelope as "Express Mail Post Office to Addressee" Mailing Label Number _____ addressed to the: Commissioner of Patents and Trademarks, Washington, D.C. 20231.

OR

CERTIFICATION UNDER 37 CFR 1.8

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Commissioner of Patents and Trademarks. Washington. D.C. 20231.

March 1, 2001
Date

Robin W. Edwards
ROBIN W. EDWARDS

ASSIGNMENT (COVER LETTER)

NAMES OF PARTY(IES) MAKING TRANSFER

1.

Name 1: THEODOROUS J. DINGEMANS
Name 2: ERIK S. WEISER
Name 3: TERRY L. ST. CLAIR

*A second Determination of Title and Assignment is provided to be retained in the U.S. PTO file wrapper as indicated on the document.

IDENTITY OF PARTY(IES) TO WHOM TRANSFER IS MADE

2. Transfer is being made to:

Name: The NATIONAL AERONAUTICS AND SPACE ADMINISTRATION (NASA)
Address: WASHINGTON, DC 20546

INTENTION OF DOCUMENT(S)

3. A brief description of what the accompanying document intends to accomplish is that it is an:

- ☒ Assignment
- ☐ License
- ☐ Security interest
- ☐ Other

Date Assignment Executed: **JANUARY 9, 2001 (1 and 2), JANUARY 12, 2001 (3)**

4. Execution Date of new Application: **JANUARY 9, 2001 (1 and 2), JANUARY 12, 2001 (3)**

03/23/2001 DBYRNE

00000215 140116 09757398

01 FC:581

40.00 CH

X:\DOCS\FORMS\CVR-ASN.RWE

PAGE 1

PATENT

REEL: 011605 FRAME: 0887

ADDRESS TO WHICH DOCUMENT SHOULD BE RETURNED AFTER RECORDAL

Please return the recorded document:

5. **ROBIN W. EDWARDS, ESQ.**
NASA LANGLEY RESEARCH CENTER
MAIL STOP 212
3 LANGLEY BOULEVARD
HAMPTON, VA 23681-0001

6. Total number of applications/patents involved: 1

7. NOTE: (37 CFR 1.21(h) - "For recording each assignment, agreement or other paper relating to the property in a patent or application per property--\$40.00")

TOTAL FEE DUE: \$40.00

FEE PAYMENT/AUTHORIZATION TO CHARGE DEPOSIT ACCOUNT

8. Fee payment is provided for as follows:

- ☒ New Application transmittal (item 13)
- ☐ Per Control Number _____ Notice of Non-Recordable Document (Copy Attached)
- ☐ FWC Transmittal (Item VIII)
- ☐ Transmittal of Filing Under 37 CFR 1.60(b) (Item 11)
- ☐ Attached is a check in the sum of \$
- ☒ Charge Account No. 14-0116 if any additional fee is due.
- ☒ Charge Account No. 14-0116 in the sum of \$40.00 for each assignment being recorded. A duplicate of this transmittal is attached.

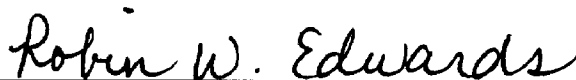
9. Statement and signature:

This transmittal consists of 5 pages of documents.

As Attorney of of Record, I hereby declare that the information contained herein is true and correct for the ☒ accompanying Assignment or ☐ copy of the Assignment , and the copy of the Assignment (if applicable), being transmitted is a true copy of the original document.

Tel. No.(757) 864-9260

NASA Langley Research Center
Mail Stop 212
3 Langley Boulevard
Hampton, VA 23681-2199



ROBIN W. EDWARDS
Reg. No. 39,179

For: ☒ U.S. and/or ☒ Foreign RightsFor: ☐ U.S. Application or☐ U.S. Provisional ApplicationFor: ☐ U.S. PatentFor: ☐ PCT Application

By: Multiple Inventors

ASSIGNMENT AND AGREEMENT

WHEREAS, the undersigned inventor(s) is (are) National Research Council Research Associate(s) having elected NOT to retain the title under the provisions of "National Aeronautics and Space Administration - Disposition of Rights in Patent and Copyright", executed on 5-11-'98, to the Subject Invention made as a consequence of, or in direct relation to, his/her (their) tenure as Research Associate(s), the Subject Invention being identified as:

TITLE: LIQUID CRYSTALLINE THERMOSETS FROM ESTER, ESTER-IMIDE, AND ESTER-AMIDE OLIGOMERS

INVENTORS: Theodorous J. Dingemans
313 Chesapeake Avenue
Hampton, VA 23666, US

Erik S. Weiser
977 Drivers Lane
Newport News, VA 23602, US

Terry L. St. Clair
17 Roberts Landing Drive
Poquoson, VA 23662, US

(This Assignment is applicable to INVENTOR(S): THEODOROUS J. DINGEMANS (hereinafter referred to as ASSIGNOR)); and

WHEREAS, the making of this Assignment and Agreement is in accordance with 15 USC §§ 3701-3715.

NOW THEREFORE, in consideration of financial and other benefits attributable to his/her (their) tenure as a Research Associateship awardee(s), the ASSIGNOR hereby sells, assigns and transfers to

ASSIGNEE: Administrator
National Aeronautics and Space Administration (NASA)
Washington, DC 20546

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

- ☐ the entire right, title and interest
- ☒ an undivided One-Third (1/3) interest for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

- ☐ and in all foreign countries, including all rights to claim priority in and to any and all improvements which are disclosed in the Subject Invention

(check and complete (a), (b), (c), (d), (e), (f), or (g))

PAGE 1 OF 2

and which is found in

- (a) ☒ U.S. patent application executed on even date herewith
(b) ☐ U.S. patent application executed on _____
(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention
☐ Express mail label no.: _____
☐ Mailed: _____
- ☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request the attorney of record to insert below the filing date and application number when they become known.
- (d) ☐ U.S. application no. _____ filed on _____
(e) ☐ International application no. PCT / _____
filed on _____
- (f) ☐ U.S. patent no. _____ issued _____
☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.
- (check (g), if foreign application(s) is also being assigned)
- (g) ☐ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said Subject Invention by the above application or any continuation, division, renewal, or substitute thereof, and as to Letters Patent any reissue or re-examination thereof

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

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said Subject Invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof;

ASSIGNOR further understands that he/she (they) will share in any licensing royalties NASA Langley Research Center may receive for the Subject Invention, and/or for all Letters Patent to be obtained for said Subject Invention by the above application or any continuation, division, renewal, or substitute thereof, and as to Letters Patent any reissue or re-examination thereof, to the same extent as the NASA inventor(s).

IN WITNESS WHEREOF, I/we have hereunto set our hand and seal.

Date: 01/09/01



THEODOROUS J. DINGEMANS

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked

PAGE 2 OF 2

PATENT
REEL: 011605 FRAME: 0890



ASSIGNMENT AND AGREEMENT

National Aeronautics and
Space AdministrationTitle of Invention: LIQUID CRYSTALLINE THERMOSETS FROM ESTER, ESTER-IMIDE, AND
ESTER-AMIDE OLIGOMERSInventor(s): THEODOROUS J. DINGEMANS, ERIK S. WEISER, and TERRY L. ST. CLAIRNASA Case No.: 16079-1 Application No.*: _____ Filing Date*: _____

WHEREAS, the parties to this Assignment and Agreement are the undersigned inventor(s) and the United States Government (hereafter Government), as represented by the Administrator of the National Aeronautics and Space Administration;

WHEREAS, the making of this Assignment and Agreement is in accordance with 37 CFR Part 501; and

WHEREAS, the undersigned inventor(s) has (have) executed, on the date(s) indicated below, an application for a United States Patent on the above-entitled invention.

NOW THEREFORE, in consideration of employment by the Government, the undersigned hereby:

1. Assign to the Government my (our) full and exclusive right in and to said invention within the United States of America, its territories and possessions, and my (our) entire right, title and interest in and to said application, and any corresponding continuation or divisional application(s), and any patent(s) that may issue therefrom.

2. Agree to grant to the Government my (our) full and exclusive foreign rights in and to said invention, in accordance with 37 CFR 501.9(d), including rights of priority under the International Convention of Paris (1883), as amended. If the Government chooses not to file an application in any foreign country, I (we) may request rights in that country, in accordance with 37 CFR 501.9(d), and such rights will be subject to the reservation to the Government of a nonexclusive, irrevocable, royalty-free license in the invention with power to grant licenses for all governmental purposes. The terms of such reservation will appear, where practicable, in any foreign patent which may issue on such invention.

3. Agree, at the expense of the Government, (a) to execute any document for, (b) to deliver any requested information to, and (c) to cooperate in any manner with the Government in order to allow the Government to protect any interest transferred by this Assignment and Agreement.

*4. Authorize and request the attorneys of record in the application to insert the application number and filing date above when required.

Erik S. Weiser 1/9/01 1/9/01
(Signature of Inventor) (Date) (Date Application Executed)
ERIK S. WEISER
(Inventor's Typed Name) 977 Drivers Lane, Newport News, VA 23602 USA
(Post Office Address - Including Country)

Terry L. St. Clair 1/12/01 1/12/01
(Signature of Inventor) (Date) (Date Application Executed)
TERRY L. ST. CLAIR
(Inventor's Typed Name) 17 Roberts Landing Drive, Poquoson, VA 23662, USA
(Post Office Address - Including Country)

(Signature of Inventor) (Date) (Date Application Executed)

(Inventor's Typed Name) (Post Office Address - Including Country)