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To the Honorable Commissioner of F



102578523

and original documents or copy thereof.

1. Name of conveying party(ies):

Jeremy Rex WALLIS  
Philip Wayne LOVEDAY

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

3. Nature of conveyance:

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

Execution Date: January 17, 2001; January 18, 2001

2. Name and address of receiving party(ies)

Name: CSIR

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

Street Address: Scientia

City: Pretoria, Gauteng Country: Republic of South Africa  
Zip: \_\_\_\_\_

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)

10/432,201

Additional numbers attached?  Yes  No

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

Name: John S. Pratt, Esq.

Internal Address: Kilpatrick Stockton LLP

Suite 2800

Street Address: 1100 Peachtree Street

City: Atlanta State: GA Zip: 30309-4530

6. Total number of applications and patents involved: 01

7. Total fee (37 CFR 3.41) . . . . . \$ 40.00

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number:

11-0855

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

**DO NOT USE THIS SPACE**

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.*

Dean W. Russell, Reg. No. 33,452

Name of Person Signing

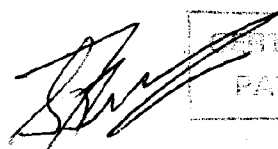
Dean W. Russell

Signature

12 SEPT- 2003

Date

Total number of pages including cover sheet, attachments, and documents: 03



CERTIFIED TRUE COPY  
PATENT ATTORNEY

**UNDERTAKING AND RATIFICATION OR ACKNOWLEDGEMENT OF  
ASSIGNMENT AND POWER OF ATTORNEY**

A&A Ref: V14385 SCF

Between 1. WALLIS, Jeremy Rex  
2. LOVEDAY, Philip Wayne

of 1. 13 Rubicon, 790 Rubenstein Drive, Moreleta Park, Pretoria, Republic of South Africa  
2. 4 Cecilia Lodge, Forbes Road, Halfway Gardens, Midrand, Republic of South Africa

(hereinafter referred to as the "Inventor/s")

and

**C S I R**

a body corporate duly incorporated in the Republic of South Africa by virtue of Act of Parliament No 46 of 1988, and having its registered office address at Scientia, PRETORIA, Gauteng, Republic of South Africa

(hereinafter referred to as "CSIR")

**WHEREAS**

the Inventor/s have/has made an invention entitled

**GENERATING DISPLACEMENT**

(hereinafter called the "Invention")

**WHEREAS**

the Inventor/s at all material times was an/were employee/s of CSIR so that by virtue of Section 13 of Act 46 of 1988 of the Republic of South Africa, the Invention vested in CSIR;

**WHEREAS**

the Inventor/s and CSIR desire that patent protection should be obtained for the Invention in the name of CSIR at least in South Africa and possibly in various other countries; and

**WHEREAS**

it is expedient to set down in this Deed, the relationship between the parties hereto.

**NOW THEREFORE**

(1)

The Inventor/s acknowledge/s that no right of whatever nature in the Invention vests in him/them and that CSIR is the owner of all right and title to the Invention in respect of all countries.

(2)

The Inventor/s undertake/s promptly to execute all such documents as may be necessary to enable CSIR, its successors

and assigns through, independently of, or in conjunction with himself/themselves to acquire patent protection for the Invention at the discretion of and in the countries selected by CSIR, its successors and assigns.

(3)

In order to give effect to the terms and conditions embodied herein, the Inventor/s irrevocably grant/s unto CSIR, its successors and assigns, his/their Power of Attorney with Power of Substitution and Revocation to act on his/their behalf as if personally acting in the execution of such papers and documents envisaged in Clause (2) above, such Power of Attorney incorporated in this agreement being dated as of the date set out hereunder above the signature/s of the Inventor/s.


(4)


The law governing this Agreement is the law of the Republic of South Africa.

DATED at PRETORIA this 17<sup>th</sup> day of January 2001 ~~2000~~

AS WITNESSES:

1.  \_\_\_\_\_


  
WALLIS, Jeremy Rex


2.  \_\_\_\_\_

DATED at PRETORIA this 18<sup>th</sup> day of January 2001 ~~2000~~

AS WITNESSES:

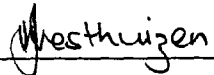
1.  \_\_\_\_\_


  
LOVEDAY, Philip Wayne


2.  \_\_\_\_\_

DATED at PRETORIA this 18<sup>th</sup> day of January 2001 ~~2000~~

AS WITNESSES:

1.  \_\_\_\_\_

  
CSIR

2.  \_\_\_\_\_