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06-08-1999



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

<p>1. Name of conveying party(ies):</p> <p><b>Richards Engineering Limited</b> <b>Pensnett House</b> <b>The Pensnett Estate</b> <b>Kingswinford, West Midlands DY6 7PP</b></p>	<p>2. Name and address of receiving party(ies):</p> <p><b>Vulcan Europe Corp</b> <b>P.O. Box 307</b> <b>Helena Industrial Park</b> <b>Helena AL 35080</b> <b>USA</b></p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input checked="" type="checkbox"/> Change of Name <input type="checkbox"/> Other: _____</p> <p>Execution Date(s): <b>August 1, 1997</b></p> <p>1st (sole) Inventor: 2nd Inventor: 3rd Inventor: 4th Inventor:</p>	<p>4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date(s) of the application is(are):</p> <p>1st (sole) Inventor: 2nd Inventor: 3rd Inventor: 4th Inventor:</p> <p>A. Patent Application No.(s):</p> <p>B. Patent No.(s): <b>4,347,876</b> <b>5,271,450</b> <b>5,452,669</b></p>

Page 1 of 2

06/07/1999 NTHA11 00000186 4347876

01 FC:581

120.00 GP

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

**Dennis M. Connolly, Esq.**  
**Nixon, Hargrave, Devans & Doyle LLP**  
**Clinton Square**  
**P.O. Box 1051**  
**Rochester, New York 14603**

6. Total number of applications and patents involved: **3**

7. Total fee (37 CFR 3.41): **\$120.00**

☐ Previously paid (see original transmittal)

☒ A check in the amount of **\$120.00** is enclosed.

8. Deposit Account Number: **14-1138**

☐ Charge total fee to account.

☒ Charge any additional fees to 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.

Date: \_\_\_\_\_

6/1/99

*D. M. Connolly*

**Dennis M. Connolly**

**Certificate of Mailing - 37 CFR 1.8(a)**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231, on the date below.

6/1/99  
Date

*Sheri A. Moscato*  
**Sheri A. Moscato**

[Total number of pages including cover sheet, attachments and document: **10**]

**THIS ASSIGNMENT** is dated *1 August*

199[ ]

**BETWEEN:-**

- (1) **RICHARDS ENGINEERING LIMITED** (Company Number 527293) of Pensnett House, The Pensnett Estate, Kingswinford, West Midlands DY6 7PP  
("the Assignor")
- (2) **VULCAN EUROPE CORP** of PO BOX 307, Helena Industrial Park, Helena AL35080 USA  
("the Assignee")

**BACKGROUND**

- (A) The Assignor is the owner of the US Patents short particulars of which are set out in the Schedule ("the Patents")
- (B) The Assignor has agreed to assign its rights in the Patents to the Assignee for the consideration specified in the following

**NOW THIS DEED WITNESSETH**

In consideration of the sum of £                      pounds) now paid by the Assignee to the Assignor (receipt whereof the Assignor hereby acknowledges) the Assignor hereby ASSIGNS with full title guarantee to the Assignee all its right title and interest in and to the Patents together with:

1. all rights and powers arising or accrued therefrom including the right to sue for damages and other remedies and to have the benefit of any remedy obtained in respect of any supposed infringement of such rights or other acts within the scope of the claim of any published specification of any of the Patents prior to the date hereof

2. the right to apply for prosecute and obtain patents or similar protection through the world in respect of the inventions the subjects of the Patents including the right to claim priority therefrom to the intent that the grant of any patent or similar protection shall be in the name of and vest in the Assignee

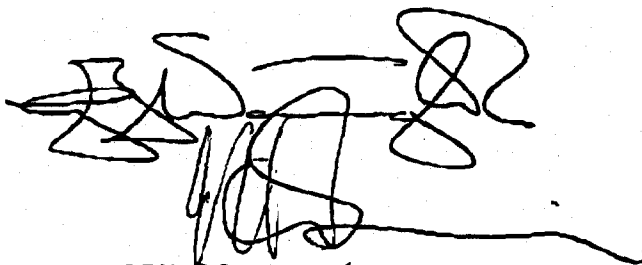
**SCHEDULE**

<u>Country</u>	<u>Patent No.</u>	<u>Patent Date</u>	<u>Title of Invention</u>
USA	4347876	7.9.1980	Green Sand Cooler
USA	5271450	3.5.1991	Thermol Reclaim Method and Apparatus
USA	5452669	8.1.1993	Incineration Apparatus

This Deed was executed by the parties and delivered on the date first mentioned in it.

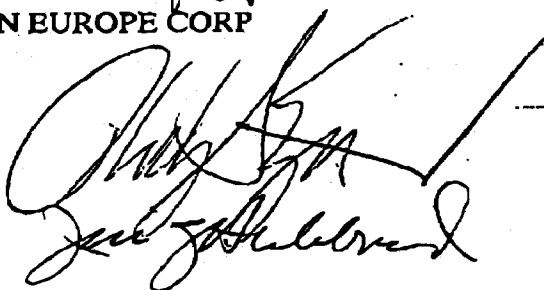
**SIGNED AS A DEED** by RICHARDS ENGINEERING LIMITED  
acting by Gerard Wainwright  
and Ian Bailey

Director's signature  
Director or secretary's signature



**SIGNED AS A DEED** by VULCAN EUROPE CORP  
acting by Philip Zettler  
and Jill Hubbard

Director's signature  
Director or secretary's signature



**ARTICLES OF AMENDMENT  
TO THE  
ARTICLES OF INCORPORATION  
OF  
VULCAN EUROPE CORP.**

Pursuant to the provisions of Section 10-2B-10.06 of the Code of Alabama, 1975, as amended, the undersigned corporation adopts the following Articles of Amendment to its Articles of Incorporation:

**FIRST:** The name of the corporation is Vulcan Europe Corp.

**SECOND:** The following amendment to the Articles of Incorporation was adopted by the shareholders of the corporation in the manner prescribed by the Alabama Business Corporation Act:

**RESOLVED** by the sole shareholder of the Corporation that the Articles of Incorporation of the Corporation be amended to change the name of the Corporation to Richards Engineering, Inc. by deleting Article FIRST of the Articles of Incorporation and substituting the following in lieu thereof as Article FIRST:

**"FIRST:** The name of the corporation is Richards Engineering, Inc."

**THIRD:** The aforesaid amendment was adopted as of August 1, 1997.

**FOURTH:** The number of shares of the corporation outstanding at the time of such adoption was 5,000 shares of common stock; and the number of shares entitled to vote thereon was 5,000 shares of common stock, all of which were represented when such action was taken. The common stock of the corporation constitutes the only voting group entitled to vote on the amendment.

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S-25794 PAGE 02 OF 02  
001 5N4 55.00

24. MAY. 1999 16:56

LEWIS & TAYLOR

NO. 4462 P. 6

MAR-18-98 10:08

FROM-VULCAN ENGINEERING

1-205-663-1493

T-856 P.03/07 F-234

**FIFTH:** The number of shares voted for such amendment was 5,000 shares of common stock; and no shares were voted against such amendment.

DATED: August 13, 1997.

Vulcan Europe Corp.

By

Philip S. Zettler  
Its President

This Instrument Prepared By:  
Joseph G. Stewart  
Burr & Forman, LLP  
3100 SouthTrust Tower  
420 North 20th Street  
Birmingham, AL 35203

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MAR 18 10:06AM

Print Time

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May. 24. 11:56AM

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MAR-18-99 10:09 FROM-VULCAN ENGINEERING

1-205-883-1483

NO. 4462. P. 7  
T-858 P.04/07 F-234

PATRICIA YEAGER FUHRMEISTER  
JUDGE OF PROBATE

DATE: 03/18/99

045-257-254

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SHELBY COUNTY, ALABAMA 35051

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**PATENT**  
REEL: 009987 FRAME: 0987

DATED 1 August 1997

RICHARDS ENGINEERING LIMITED

- and -

VULCAN EUROPE CORP

ASSIGNMENT OF US PATENTS

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Ref: SJL/938/LMcG  
BIRLIT/85797

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