



TRINIDAD AND TOBAGO GAZETTE

(EXTRAORDINARY)

VOL. 42

Port-of-Spain, Trinidad, Tuesday 11th February, 2003—Price \$1.00

No. 26

216

APPOINTMENT TO ACT AS MINISTER OF SCIENCE, TECHNOLOGY AND TERTIARY EDUCATION

IT IS HEREBY NOTIFIED for general information that His Excellency the President, acting in accordance with the advice of the Prime Minister, in exercise of the power vested in him by subsection (2) of section 79 of the Constitution of the Republic of Trinidad and Tobago, has appointed DR. LENNY SAITH, a Senator, to act in the Office of Senator the Honourable DANNY MONTANO, Minister of Science, Technology and Tertiary Education, with effect from 7th February, 2003 and continuing during the absence from Trinidad and Tobago of the said Senator the Honourable Danny Montano, in addition to the discharge of his normal duties.

G. NURSE
*Secretary to His Excellency
the President*

4th February, 2003.

217

REPUBLIC OF TRINIDAD AND TOBAGO

IN THE HIGH COURT OF JUSTICE
(Sub-Registry, San Fernando)

H.C.A. No. S-W 1 of 2003.

In the Matter of

QUASHIES FUNERAL HOME AND CAR RENTAL SERVICES LTD.

And

In the Matter of

THE COMPANIES ACT, 1995 AS AMENDED BY ACT NO. 5 OF 1997

NOTICE is hereby given that a Petition for the winding up of the above-named Company by the High Court of Justice, San Fernando, was on the 31st January, 2003, presented to the said Court by M. Rampersad Auto Supplies Limited of 2-12, Hilda Lazzari Terrace, Les Efforts East, (By Pass), San Fernando and that the said Petition is directed to be heard before the Court sitting at 9 o'clock on Thursday the 20th day of February, 2003, and any creditor or contributory of the said Company desirous to support or oppose the making of an order on the said Petition may appear at the hearing in person or through Counsel for the purpose and a copy of the Petition will be furnished to any creditor or contributory of the said Company requiring the same by the undersigned on payment of the regulated charge for the same.

Dated this 3rd day of February, 2003.

R. RAMPERSAD & CO.
Applicant's Attorney-at-law

NOTE: Any person who intends to appear on the hearing of the said petition must serve on or send by post to the above-named, notice in writing of his intention so to do. This notice must state the name and address of the person, or, if a firm, the name and address of the firm, and must be signed by the person or firm, or his or their Attorney-at-law (if any), and must be served, or if posted, must be sent by post in sufficient time to reach the above-named not later than 4.00 o'clock in the afternoon of Wednesday the 19th day of February, 2003.

218

TRINIDAD AND TOBAGO SECURITIES AND EXCHANGE COMMISSION

IN THE MATTER OF

THE SECURITIES INDUSTRY ACT, 1995

And

THE APPROVAL OF AMENDMENTS TO THE STOCK EXCHANGE RULES

[Pursuant to section 40(3) of the Securities Industry Act, 1995]

ORDER

WHEREAS:

1. Section 40(1) of the Securities Industry Act, 1995 (the Act) provides that where a self-regulatory organization proposes to amend its rules it shall file with the Commission a copy of the proposed amendment and a concise statement of its substance and purpose;
2. by letter dated October 28, 2002, Mr. Hugh Edwards, General Manager of the Trinidad and Tobago Stock Exchange Limited (the Exchange) advised the Commission that the Board of the Exchange had agreed to amend the Stock Exchange Rules to provide for recognition of the Trinidad and Tobago Central Depository Limited as the clearing and settlement agency;
3. under cover of letter dated October 28, 2002, the Exchange forwarded a copy of proposed amendments to the Stock Exchange Rules in respect of the recognition of the Trinidad and Tobago Central Depository Limited and other proposed amendments to the Stock Exchange Rules to correct typographical errors;
4. the Commission reviewed the proposed amendments and indicated that changes should be made to them;
5. by letter dated December 20, 2002, the Exchange forwarded a copy of revised proposed amendments;
6. the Commission considered the proposed amendments and was satisfied that they related exclusively to the administration of the Exchange;
7. the Commission was further satisfied that the amended rules would comply with section 39 of the Securities Industry Act, 1995 and would be consistent with the other provisions of the Act;

Now therefore, in exercise of the power conferred by section 40(3) of the Securities Industry Act, 1995, the Trinidad and Tobago Securities and Exchange Commission hereby approves the amendments filed on December 20, 2002.

Dated this 8th day of January, 2003.

C. M. ROBINSON
Chairman

219

TENDERS FOR PROPOSALS FOR PRE-QUALIFICATION INFORMATION FOR HIRING A CONSULTANT/CONSULTANCY FIRM TO PROVIDE CONSULTING SERVICES FOR THE PROCESS MAPPING AND RE-DESIGN INITIATIVES OF THE MINISTRY OF EDUCATION—(SEMP)

THE GOVERNMENT OF THE REPUBLIC OF TRINIDAD AND TOBAGO (GORTT) through the Ministry of Education (MOE) has accessed loan funding from the Inter-American Development Bank (IDB) for a Secondary Education Modernization Programme (SEMP) IDB Loan No. 1180/OC-TT, the goal of which is to modernize the secondary education sector in Trinidad and Tobago.

One (1) component of the SEMP operation is the Institutional Strengthening of the Ministry of Education (MOE). The goal of this project is to map all the processes of the Ministry of Education and design/redesign processes through implementation and initial debugging phases in the most effective and efficient manner consistent with resources available and MOE organizational capacity. This work is expected to be conducted over 2.5 years, commencing within three months of the award of contract. This Pre-qualification Notice is for full-scale process mapping and design/redesign of processes of the MOE. To fulfil its responsibility under this loan, the GORTT is inviting expressions of interest from contracting firms from the IDB member countries to provide process mapping services.

The technical proposal shall be evaluated according to the following criteria:

- | | | | | | |
|--|-----|-----|-----|-----|-----------|
| (i) Financial Capacity | ... | ... | ... | ... | 30 points |
| (ii) Relevant experience of firm | ... | ... | ... | ... | 30 points |
| (iii) Resources | ... | ... | ... | ... | 20 points |
| (iv) Transfer of Technology/Capability | ... | ... | ... | ... | 10 points |
| (v) Additional Skills | ... | ... | ... | ... | 10 points |

219—Continued**TENDERS FOR PROPOSALS FOR PRE-QUALIFICATION INFORMATION FOR HIRING A CONSULTANT/CONSULTANCY FIRM TO PROVIDE CONSULTING SERVICES FOR THE PROCESS MAPPING AND RE-DESIGN INITIATIVES OF THE MINISTRY OF EDUCATION—(SEMP)—(CONTINUED)**

Interested firms whether acting singly or in joint venture, are required to submit relevant pre-qualification information according to the pre-qualification documents which can be obtained from the Programme Co-ordinator at Address below. All pre-qualification information should be submitted in the English language. After evaluation of the information submitted, a shortlist of consulting firms and/or joint ventures of consulting firms will be selected and requested to submit proposals for the provision of the consultancy services.

Attention Mrs. Cherrie Ann Joseph
Programme Co-ordinator
Secondary Education
Modernization Programme
Ministry of Education
MTS Plaza
Aranguez
Republic of Trinidad and Tobago
West Indies
Telephone Number 1-868-675-9739/9742
Fax No: 1-868-675-9746
E-Mail: sempcu@tstt.net.tt

Each applicant must submit one (1) original and two (2) copies of the pre-qualification documents to the address below not later than 1.00 p.m. on Thursday, 20th March, 2003. (Local Time).

Chairman
Central Tenders Board
116, Frederick Street
Port-of-Spain
Republic of Trinidad and Tobago
West Indies
Telephone Number 1-868-625-3565
Fax no: 1-868-625-1809
E-Mail: ctbt@cablenett.net

Each envelope must be clearly marked:

Pre-qualification information for hiring a consultant/consultancy firm to provide consulting services for the Process Mapping and Re-design Initiatives of the Ministry of Education—(SEMP).

The pre-qualification documents will be opened shortly thereafter at the Central Tenders Board's Office. The applicant or a representative may be present at the opening.

The Central Tenders Board reserves the right to void the procedures and no applicant shall be entitled to compensation in such an event.


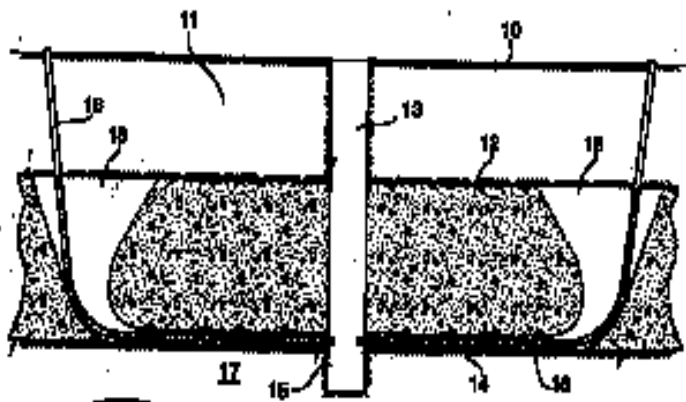
Late Submissions will not be accepted.

All queries may be addressed to the SEMP Unit below—


Attention Mrs. Cherrie Ann Joseph,
Programme Co-ordinator,
Secondary Education,
Modernization Programme,
Ministry of Education,
MTS Plaza,
Aranguez,
Republic of Trinidad and Tobago,
West Indies.
Telephone Number 1-868-675-9739/9742
Fax no: 1-868-675-9746
E-Mail: sempcu@tstt.net.tt

M. MARCANO
Chairman,
Central Tenders Board
Government of the
Republic of Trinidad and Tobago

FORM NO. 3 - THE PATENTS ACT.

<p>(19) Intellectual Property Office Trinidad and Tobago</p> 	<p>(11) Publication Number: TT/P/2003/00001</p> <p>(45) Publication Date: Tuesday 11th February, 2003</p> <p>(51) IPC: (6) C10G 1/02</p>
<p>(12) PATENT</p>	
<p>(21) Application Number: TT/A/1999/00045</p> <p>(22) Filing Date: 27 May 1999</p> <p>(31) Priority Number: 60/086,890</p> <p>(32) Priority Date: 27 May 1998</p> <p>(33) Priority Country: UNITED STATES OF AMERICA</p>	<p>(73) Owner(s): TECMARK INTERNATIONAL DEVELOPMENTS INC.; 15, Innovation Blvd., Saskatoon, Saskatchewan, Canada S7N 2X8.</p> <p>(72) Inventor(s): SCHIMDT, Brian H.; 203 Welch Place, Okotoks, Alberta, Canada T0L 1T2. JESPERSEN, Paul J.; 2315-54th Avenue, S.W. Calgary, Alberta, Canada T3E 1L9; KRISTOFF, Brian J.; 27 Leopold Crescent, Regina, Saskatchewan, Canada S4T 6N5.</p> <p>(74) Agent: M. Hamel-Smith & Co., 19 St. Vincent Street, Port of Spain, Trinidad, W.I.</p>
<p>(54) Title: MULTIPLE DRAIN METHOD FOR RECOVERING OIL FROM TAR SAND</p>	
<p>Abstract: A thermal method is described for recovering normally immobile hydrocarbon oil from a subsurface tar sand deposit. The procedure comprises: (a) establishing at least one substantially vertical production bore hole extending from the surface of the earth to at least the bottom of said subsurface formation; (b) providing a plurality of bore holes extending downwardly from the surface of the earth through the tar sand formation to substantially the bottom thereof and then substantially horizontally at or near the bottom of the tar sand formation and converging radially inward to each bore hole, each radial bore hole containing a perforated or slotted tube; (c) continuously injecting steam downwardly through the perforated or slotted tubes whereby the steam discharges through the perforations or slots and into the tar sand formation to reduce the viscosity of the normally immobile oil, with a substantial proportion of the steam being injected into the formation via the portion of each tube extending downwardly through the tar sand formation whereby the steam reduces the viscosity of the normally immobile oil over an area extending substantially between the perforated tube and the top of the tar sand formation with this viscosity reducing area expanding radially and moving axially inwardly toward the vertical production bore hole thereby creating an expanding generally conical-shaped production chamber; and (d) draining the less viscous oil and steam condensate thus obtained downwardly by gravity to the bottom of the production chamber and then through the horizontal tubes into the bottom of the vertical production bore hole for collection.</p>	

FORM NO. 3 - THE PATENTS ACT.

<p>(19) Intellectual Property Office Trinidad and Tobago</p> 	<p>(11) Publication Number: TT/P/2003/00002</p> <p>(45) Publication Date: Tuesday 11th February, 2003</p> <p>(51) IPC: (6) F25J 1/02</p>
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(12) **PATENT**

<p>(21) Application Number: TT/A/2000/00143</p> <p>(22) Filing Date: 20 May 1999</p> <p>(31) Priority Number: 98304072.6</p> <p>(32) Priority Date: 21 May 1998</p> <p>(33) Priority Country: EP</p>	<p>(73) Owner(s): SHELL INTERNATIONALE RESEARCH MAATSCHAAPPIJ BV; Carel van Bylandtlaan 30, 2596 HR The Hague, The Netherlands.</p> <p>(72) Inventor(s): GROOTJANS, Hendrik Frans; Carel van Bylandtlaan 30, 2596 HR The Hague, The Netherlands. KLEIN NAGELVOORT, Robert; Carel van Bylandtlaan 30, 2596 HR The Hague, The Netherlands. VINK, Kornelis Jan; Carel van Bylandtlaan 30, 2596 HR The Hague, The Netherlands.</p> <p>(74) Agent: Messrs. Fitzwilliam, Stone, Furness-Smith & Morgan, 36 Pembroke Street, Port of Spain, Trinidad, W.I.</p>
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(54) **Title: LIQUEFYING A STREAM ENRICHED IN METHANE**

(57) **Abstract:** Liquefying a stream enriched in methane comprising a) supplying a natural gas stream (1) to a scrub column (5), removing in the scrub column (5) heavier hydrocarbons from the natural gas stream (1) to obtain a gaseous overhead stream (8) withdrawn from the top of the scrub column (5), partly condensing the gaseous overhead stream and removing from it a condensate stream (91), which is returned to the upper part of the scrub column (5) as reflux; b) liquefying the stream enriched in methane in a tube (15) arranged in a main heat exchanger (17) by indirect heat exchange with a multicomponent refrigerant evaporating at low refrigerant withdrawn from the shell side (19) of the main heat exchanger (15) and partly condensing it at an elevated refrigerant pressure; and c) compressing the multicomponent refrigerant pressure in a tube (38) arranged in an auxiliary heat exchanger (35) by indirect heat exchange with an auxiliary multicomponent refrigerant evaporating at low auxiliary refrigerant pressure to obtain multicomponent refrigerant for use in step b), wherein partly condensing the gaseous overhead stream is done in a tube (83) arranged in the auxiliary heat exchanger (35).

FORM NO. 3 - THE PATENTS ACT.

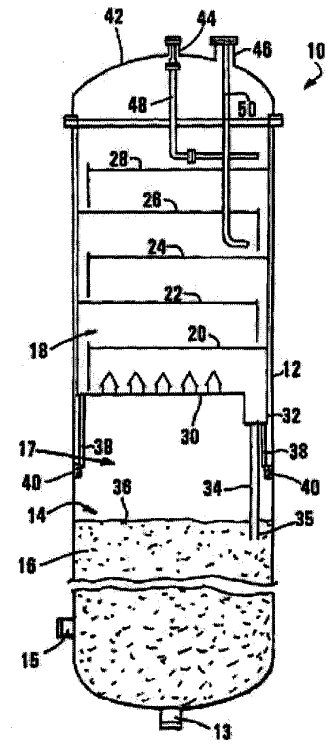
<p>(19) Intellectual Property Office Trinidad and Tobago</p> 	<p>(11) Publication Number: TT/P/2003/00003</p> <p>(45) Publication Date: Tuesday 11th February, 2003</p> <p>(51) IPC: (6) B01J 8/22</p>
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(12) **PATENT**


<p>(21) Application Number: TT/A/2000/00060</p> <p>(22) Filing Date: 1 October 1998</p> <p>(31) Priority Number: 97/8966</p> <p>(32) Priority Date: 7 October 1997</p> <p>(33) Priority Country: SOUTH AFRICA</p>	<p>(73) Owner(s): SASOL TECHNOLOGY (PROPRIETARY) LIMITED; 1 Sturdee Avenue, Rosebank, Johannesburg, South Africa.</p> <p>(72) Inventor(s): STEYNBERG, Andre Peter; 4 Moerdyk Street, Vanderbijlpark 1911 South Africa. JONES, David H.; 15 Jefferson Street, Newton, Massachusetts 02158, (US). SILVERMAN, Roy W.; 12 Salem Street, Winchester, Massachusetts 01890 (US).</p> <p>(74) Agent: M. Hamel-Smith & Co., 19 St. Vincent Street, Port of Spain, Trinidad, W.I.</p>
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(54) **Title: PROCESS FOR PRODUCING LIQUID AND, OPTIONALLY, GASEOUS PRODUCTS FROM GASEOUS REACTANTS.**

(57) **Abstract:** The process of the invention comprises feeding gaseous reactants into a slurry bed of particles suspended in a liquid. The gaseous reactants (13) react in the slurry bed (16), to form liquid and, optionally, gaseous products. The liquid product forms, together with the suspension liquid, a liquid phase of the slurry bed (16). Any gaseous product and unreacted gaseous reactants disengage from the slurry bed, and pass upwardly, together with any entrained solid particles and liquid phase, as a gas phase into a head space (17) above the slurry bed (16). The gas phase is subjected to distillation and, optionally, washing in the head space, to separate any entrained solid particles and liquid phase from the gas phase. Any separated entrained solid particles and, optionally, liquid phase is returned to the slurry bed. The treated gas phase is withdrawn (44, 46) from the head space.



FORM NO. 3 - THE PATENTS ACT.

<p>(19) Intellectual Property Office Trinidad and Tobago</p> 	<p>(11) Publication Number: TT/P/2003/00004</p> <p>(45) Publication Date: Tuesday 11th February, 2003</p> <p>(51) IPC: (6) G01V</p>
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(12) **PATENT**

<p>(21) Application Number: TT/A/2000/00135</p> <p>(22) Filing Date: 11 May 1999</p> <p>(31) Priority Number: 60/085,059</p> <p>(32) Priority Date: 12 May 1998</p> <p>(33) Priority Country: UNITED STATES OF AMERICA</p>	<p>(73) Owner(s): LOCKHEED MARTIN CORPORATION; 9500 Godwin Dr., Building 400/043, Manassas, Virginia 20110-4157, United States of America.</p> <p>(72) Inventor(s): SCHWEITZER, Melvin; 32 Park Avenue, Port Washington, NY 11050 (US). FELDMAN, Walter, K.; 20 Reeves Street, Smithtown, NY 11787 (US). KONIG, William, F.; 45 Cardinal Road, Manhasset, NY 11030 (US). DIFRANCESCO, Daniel, J.; 655 Treichler Street, North Tonawanda, NY 14120 (US). SIERACKI, David, L.; 392 Terrace Boulevard, Depew, NY 14043 (US). SAN GIOVANNI, Carlo, P.; 8 Sarina Drive, Commack, NY 11725 (US).</p> <p>(74) Agent: Messrs. Fitzwilliam, Stone, Furness-Smith & Morgan, 36 Pembroke Street, Port of Spain, Trinidad, W.I.</p>
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(54) **Title: SYSTEM AND PROCESS FOR OPTIMIZING GRAVITY GRADIOMETER MEASUREMENTS.**

(57) **Abstract:** Gravity gradient measurements taken by an accelerometer type gradiometer are optimized by tilting the measuring plane of the instrument by a selected angle above and below the horizontal to obtain data that can be differenced or otherwise processed to remove instrument bias and by taking data at first and then at a second orthogonal azimuth heading to obtain absolute non-relative gradient measurements.

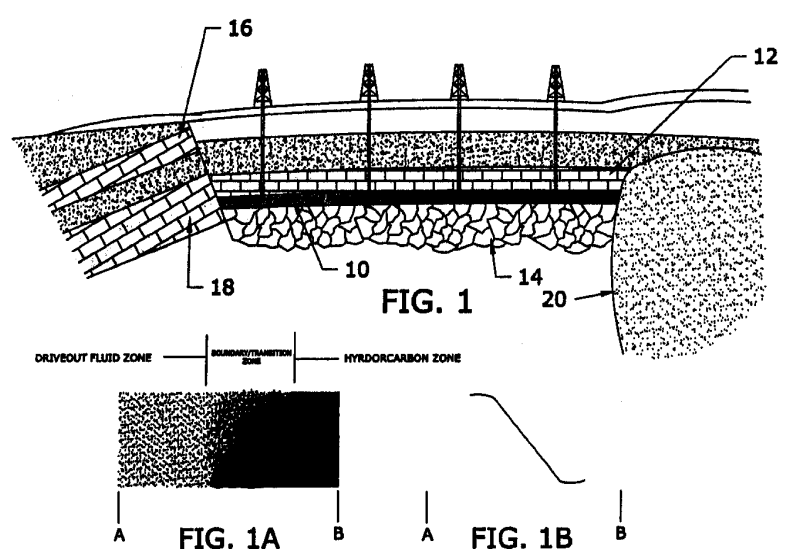



FIG. 1

DRIVEOUT FLUID ZONE ACCELEROMETER HYDROCARBON ZONE

A **FIG. 1A** B A **FIG. 1B** B

FORM NO. 3 - THE PATENTS ACT.

<p>(19) Intellectual Property Office Trinidad and Tobago</p> 	<p>(11) Publication Number: TT/P/2003/00005</p> <p>(45) Publication Date: Tuesday 11th February, 2003</p> <p>(51) IPC: (6) C07C 29/62, 29/00</p>
<p>(12) PATENT</p>	
<p>(21) Application Number: TT/A/2000/00144</p> <p>(22) Filing Date: 17 May 1999</p> <p>(31) Priority Number: 60/086,089</p> <p>(32) Priority Date: 20 May 1998</p> <p>(33) Priority Country: United States of America</p>	<p>(73) Owner(s): JLM TECHNOLOGY LTD.; Suite 120, 952 Echo Lane, Houston, TX 77024 (US).</p> <p>(72) Inventor(s): MILLER, Jorge; Apartment 9204, 3300 Sage Road, Houston, TX 77056 (US).</p> <p>(74) Agent: J. D. Sellier & Co., 129/131 Abercromby Street, Port of Spain, Trinidad, W.I.</p>
<p>(54) Title: METHODS FOR CONVERTING LOWER ALKANES AND ALKENES TO ALCOHOLS AND DIOLS.</p>	
<p>(57) Abstract: The present invention is directed to methods for converting lower alkanes and alkenes to the corresponding lower alkanols and diols. In the methods of the present invention, a gaseous halogen, preferably bromine, is produced by decomposing a metal halide in a liquid having a melting point below and a boiling point above the decomposition temperature of the metal halide. The preferred liquid is molten, hydrated ferric chloride maintained at a temperature between about 37–280 °C. The lower alkane or alkene is halogenated in a gas phase reaction with the produced halogen. The alkyl halide or alkyl dihalide is contacted with a metal hydroxide, preferably an aqueous solution of ferric hydroxide, to regenerate the metal halide and produce the corresponding lower alkanol or diol. The present invention is particularly efficient for converting methane to methanol using ferric bromide to provide the halogen.</p>	


Tuesday 11th February, 2003

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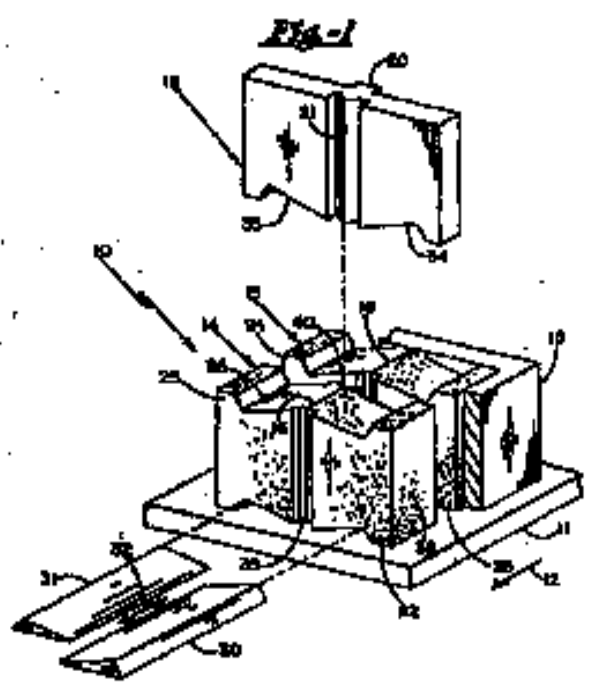
<p>(19) Intellectual Property Office Trinidad and Tobago</p> 	<p>(11) Publication Number: TT/P/2003/00007</p> <p>(45) Publication Date: Tuesday 11th February, 2003</p> <p>(51) IPC: (6) B28B 005/02</p>
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(12) **PATENT**

<p>(21) Application Number: TT/A/1999/00057</p> <p>(22) Filing Date: 6 July 1999</p> <p>(31) Priority Number: 110,784</p> <p>(32) Priority Date: 6 July 1998</p> <p>(33) Priority Country: UNITED STATES OF AMERICA</p>	<p>(73) Owner(s): ALLAN BLOCK CORPORATION; 7400 Metro Boulevard, Edina, Minnesota 55439, (US).</p> <p>(72) Inventor(s): BOTT, Tim Allen; 4 Rossmore Road, Sunfish Lake, Minnesota 55118, (US).</p> <p>(74) Agent: J. D. Sellier & Co., 129/131 Abercromby Street, Port of Spain, Trinidad, W.I.</p>
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(54) **Title: METHOD OF PRODUCING STACKABLE CONCRETE BLOCKS.**

(57) **Abstract:** A method of preparing stackable block structures from raw concrete mixes and block structures prepared in accordance with the method, wherein the process utilizes a mold box configured to form the block on its side surface. The mold box is arranged to travel along the surface of a moving conveyor belt, with the box having an open top, an open bottom, and lateral side panels supported on the conveyor belt surface, and with the panels having core bar receiving openings formed therein. The core bars are introduced and removed from the mold box along an axis which is parallel to the surface of the core bars and to the motion axis of the conveyor belt, and with the core bars configuring one of the two opposed side surfaces of the stackable block. A reciprocating top shoe arranged for reciprocatory up and down motion engages and configures the top surface of the raw concrete mix held within the walls of the mold box.



227

FORM NO. 3 - THE PATENTS ACT.

<p>(19) Intellectual Property Office Trinidad and Tobago</p> 	<p>(11) Publication Number: TT/P/2003/00006</p> <p>(45) Publication Date: Tuesday 11th February, 2003</p> <p>(51) IPC: (6) E04B 2/46</p>
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<p>(12)</p>	<p>PATENT</p>
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<p>(21) Application Number: TT/A/1999/00074</p> <p>(22) Filing Date: 13 September 1999</p> <p>(31) Priority Number: 246,230</p> <p>(32) Priority Date: 8 February 1999</p> <p>(33) Priority Country: United States of America</p>	<p>(73) Owner(s): ALLAN BLOCK CORPORATION; 7400 Metro Boulevard, Edina, Minnesota 55439, (US).</p> <p>(72) Inventor(s): BOTT, Tim Allen; 4 Rosnoke Road, Sunfish Lake, Minnesota 55118, (US).</p> <p>(74) Agent: J. D. Sellier & Co., 129/131 Abercromby Street, Port of Spain, Trinidad, W.I.</p>
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<p>(54) Title: DRY STACKABLE BLOCK STRUCTURES</p>
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<p>(57) Abstract: A stackable block structure system for dry stacking concrete reinforced walls which provides for alignment and leveling during construction includes a stretcher block having a recess of triangular cross-sectional configuration formed on a bottom surface and disposed intermediate a pair of co-planar, parallelly disposed laterally extending rectangular edge portions. The top surface of the stretcher block includes a flat portion disposed intermediate a pair of parallelly extending rectangular edge portions the top surfaces of which form upwardly converging surfaces of truncated triangular cross-sectional configuration. Inside sections of the top surface edge portions are configured to matingly and adjustably abut respective outside sections of the bottom surface recess surfaces of a block in an adjacent stacked row. A corner block includes a first portion of generally parallelepiped configuration and an integral second portion of similar configuration to the stretcher block.</p>	
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FORM NO. 3 - THE PATENTS ACT.

<p>(19) Intellectual Property Office Trinidad and Tobago</p> 	<p>(11) Publication Number: TT/P/2003/00009</p> <p>(45) Publication Date: Tuesday 11th February, 2003</p> <p>(51) IPC: (6) G01V 001/00</p>
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(12) **PATENT**

<p>(21) Application Number: TT/A/1999/00048</p> <p>(22) Filing Date: 9 June 1999</p> <p>(31) Priority Number: 09/259,952</p> <p>(32) Priority Date: 1 March 1999</p> <p>(33) Priority Country: United States of America</p>	<p>(73) Owner(s): YAMAMOTO ENGINEERING CORPORATION; 12200, S.W. 89th Avenue, Miami, Florida 33176, United States of America. KAWASAKI STEEL CORPORATION; 1-28, Kitahonmachideri 1-chome, Chuo-ku Kobe-shi, Hyogo 651, Japan.</p> <p>(72) Inventor(s): YAMAMOTO, Takao; 12200, S.W. 89th Avenue, Miami, Florida 33176, United States of America.</p> <p>(74) Agent: J. D. Sallier & Co., 129/131 Abercromby Street, Port of Spain, Trinidad, W.I.</p>
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(54) **Title: METHOD OF IMAGING THE PERMEABILITY AND FLUID CONTENT STRUCTURE WITHIN SEDIMENT.**

(57) **Abstract:** A non-destructive method of measuring physical characteristics of a medium, such as unconsolidated sediment, sandstone, or limestone. A pseudo-random code is generated and is used to generate a pseudo-random acoustic signal. This signal is transmitted into the medium to be measured through the use of a transducer, such as a piezoelectric element, and is received by a plurality of hydrophones. The received signal is then processed to obtain an image of its velocity and attenuation. A universal geosonometric model of the medium for a given set of measured data is determined, and the model is solved to obtain a pair of permeability-porosity results for the medium. The one of this pair of permeability-porosity results which is correctly indicative of the physical characteristics of the medium is then determined.

