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AVISO DE NOTIFICACION

0103

CORREO CERTIFICADO

Bogotá, D C

Radicación 00083187 00000006 Fecha 29/11/2005 8 15 46
Tramite 2 PATENTES DE INVENCION
Evento 1 REGISTRO/DEPOSITO/CONCESION/DEPOSITO
Actuación 432 COMUNICACION ACTO ADMINISTRATIVO
Solicitante FERRERO EMILIO Folios 1

Señor (a) (es)
FERRERO EMILIO
CARRERA 4 NO 72 - 35
BOGOTA D C

R/

REF RESOLUCION No 31668
FECHA No 28/11/2005
EXPEDIENTE No 0 83187
Tramite 2 PATENTES DE INVENCION
Evento 1 REGISTRO/DEPOSITO/CONCESION/DEPOSITO
Actuación 432 COMUNICACION ACTO ADMINISTRATIVO

Estimado Doctor (a)

Comedidamente le solicito presentarse a este Despacho ubicado en la Carrera 13 No 27 - 00 Piso Quinto (5), de la ciudad de Bogotá D C , dentro del término de cinco (5) días hábiles contados a partir del envío de la presente citación, en horario de 8 30 a m a 5 00 p m jornada continua, con el fin de notificarle personalmente el contenido de la resolución de la referencia proferida dentro del expediente tramitado con el número de radicación citado en el asunto

De no hacerse presente en el término indicado anteriormente, la providencia en mención se notificará por edicto, el cual se fijará por el término de diez (10) días en el Centro de Documentación e Información Para su comodidad el texto completo de la resolución se encontrará disponible en la página web de la Entidad, desde el día hábil siguiente al que se desfije el edicto

La consulta del listado notificación y del acto administrativo puede ser realizada desde un computador con acceso a Internet, en la página web [www sic gov co](http://www.sic.gov.co), con el número de resolución a través de la opción servicios en línea - caracter general - consulta actos administrativos

Secretaría General
SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO



Industria y Comercio
SUPERINTENDENCIA

REPUBLICA DE COLOMBIA
SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

RESOLUCION 31668

Por la cual se niega una patente de invención

Rad N° 00-83187

EL SUPERINTENDENTE DE INDUSTRIA Y COMERCIO
en ejercicio de sus facultades legales, en especial de las que se confirieron en el artículo
4, numeral 5 del decreto 2153 de 1992, y

CONSIDERANDO

PRIMERO Que mediante escrito radicado en esta Superintendencia el 01 de noviembre del 2000, bajo el número 00083187, se presentó la solicitud de patente para la invención denominada **METODO Y APARATO PARA PROCESAR SUMINISTROS DE HIDROCARBUROS PESADOS**", contenida en el expediente de la referencia

SEGUNDO Que efectuado el examen de forma en cuanto a los requisitos que debe llenar la solicitud y cumplidas las exigencias legales, se ordenó publicar el extracto sin que se hubieran presentado oposiciones por parte de terceros

TERCERO Que el artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina establece que "Si la oficina nacional competente encontrara que la invención no es patentable o que no cumple con alguno de los requisitos establecidos en esta Decisión para la concesión de la patente, lo notificará al solicitante. Este deberá responder a la notificación dentro del plazo de sesenta días contados a partir de la fecha de la notificación. Este plazo podrá ser prorrogado por una sola vez por un período de treinta días adicionales si el solicitante no respondiera a la notificación dentro del plazo señalado, o si a pesar de la respuesta subsistieran los impedimentos para la concesión, la oficina nacional competente denegara la patente"

CUARTO Que realizado el examen de fondo, se requirió al solicitante en los términos del artículo 45 de la Decisión 486 de la Comisión de la Comunidad Andina, para que presentara respuesta a las observaciones de carácter técnico visibles a folios 122 a 158 del cuaderno administrativo, relacionadas con la patentabilidad o cumplimiento de los requisitos establecidos por esta Decisión para la concesión de la patente. Frente a dicho requerimiento no hubo pronunciamiento alguno por parte del mismo, motivo por el cual es procedente negar el privilegio de patente solicitado con fundamento en lo dispuesto en el artículo 45 de la Decisión 486

RESUELVE

ARTICULO PRIMERO Negar el privilegio de patente de invención para la solicitud correspondiente a **"METODO Y APARATO PARA PROCESAR SUMINISTROS DE HIDROCARBUROS PESADOS"**

Sede Centro Carrera 13 No 27 00 Pisos 2 5 7 y 10
Sede CAN Tr 40A No 38-50 Conmutador 3820840
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Bogotá D C Colombia

31668



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REPUBLICA DE COLOMBIA
SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

RESOLUCION 31668

Por la cual se niega una patente de invencion

Rad N° 00-83187

ARTICULO SEGUNDO Notificar personalmente el contenido de la presente resolución al doctor Emilio Ferrero, o a quien haga sus veces, en su calidad de apoderado de Omat Industries Ltd , entregandole copia de la misma, advirtiéndole que contra ella procede el recurso de reposición interpuesto ante el Superintendente de Industria y Comercio, al momento de la notificación o dentro de los 5 dias hábiles siguientes a ella

NOTIFIQUESE Y CUMPLASE

Dada en Bogotá, D C , a los

28 NOV 2009

EL SUPERINTENDENTE DE INDUSTRIA Y COMERCIO,

JAIR RUBIO ESCOBAR

Doctor
EMILIO FERRERO
Carrera 4 N° 72 - 35
Bogotá D C

202021

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SUPERINTENDENCIA DE INDUSTRIA Y COMERCIO

SECRETARIA GENERAL

El **13 DIC 2005** notifica por medio de **EMILIO FERRERO**
De la presente providencia a **C.C. No. 488-019 de Usaquen**
Identificado con la C.C. No. **No. 31.929**
Entregándole copia de la misma e inf. mandarle que
Presente el recurso de reposición ante el
Dentro de los (5) días hábiles siguientes a la presente Notificación

Emilio Ferrero

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Date

05 12 02

Reference	Application No / Patent No 00974033 3 2104 PCT/US0029923
Applicant/Proprietor ORMAT INDUSTRIES LTD	

**Notice drawing attention to Article 86(2) EPC, Art 2 No 5 of the rules relating to fees
Payment of the renewal fee plus additional fee**

The renewal fee for the 03 year fell due on 31 10 02 unless this date falls within the period covered by an interruption of the proceedings in accordance with Rule 90(1) EPC

The amount of the renewal fee on that date was EUR 380,00 (see OJ EPO 2001 374 377 378 and 543)

The renewal fee was not paid by the due date

The renewal fee may still be validly paid up to the last day of the sixth calendar month following the due date provided that the additional fee (10% of the renewal fee) is paid at the same time

Within the above period which cannot be extended the following fees are to be paid

Renewal fee for the 03 year	EUR	380 00
Additional fee	EUR	38 00
TOTAL AMOUNT	EUR	418 00

If the renewal fee and the additional fee are not paid in due time the European patent application shall be deemed to be withdrawn (Art 86(3) EPC)

Note to users of the automatic debiting procedure

The normal time limit for payment of the above renewal fee had already expired when the automatic debit order was received. The renewal fee and the surcharge will be debited automatically on the last day of the period of grace (Supplement to OJ EPO 2/1999 OJ EPO 2000 62)



0-83183

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Date
11 05 05

Reference P NATH-6/EP	Application No./Patent No 00123713 0 1213 / 1096002
Applicant/Proprietor ORMAT INDUSTRIES LTD	

Communication regarding the expiry of the time limit within which notice of opposition may be filed

You are hereby informed that on expiry of the nine-month time limit from the publication of the mention of the grant of European Patent No 1096002 no notice of opposition had reached the files

The entry in the Register of European Patents will be automatically generated by the electronic data processing system

Examining Division



EPPU 02 07 07 04 1213

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Datum/Date

27/05/04

Zusatz/Ref./Réf	Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°
P-NATH-6/EP	00123713 0-1213 1096002
Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire ORMAT INDUSTRIES, LTD	

DECISION TO GRANT A EUROPEAN PATENT PURSUANT TO ARTICLE 97(2) EPC

Following examination of European patent application No 00123713 0
a European patent with the title and the supporting documents indi-
cated in the communication pursuant to Rule 51(4) EPC dated 24 11 03
is hereby granted in respect of the designated Contracting States

The modifications subsequently requested by the applicant and received
at the EPO on 00 00 00 have been taken into account

Patent No 1096002
Date of filing 31 10 00
Priority claimed 01 11 99/US 431159
Designated Contracting States
and Proprietor(s) AT-BE-CH-CY-DE-DK-ES-FI-FR-GB-GR-IE-IT-
LI-LU-MC-NL-PT-SE
ORMAT INDUSTRIES, LTD
P O Box 68
Yavne 70650/IL

This decision will take effect on the date on which the European
Patent Bulletin mentions the grant (Art 97(4) and (5) EPC)

The mention of the grant will be published in European Patent
Bulletin 04/28 of 07 07 04

Examining Division
BOGAERTS M L M DEURINCK P C H GILLIQUET J H L



Registered letter

EPO Form 2006A 07 02

7061001 to EPO postal service 21/05/04

ANMERKUNG ZUR ENTSCHEIDUNG ÜBER DIE ERTEILUNG EINES EUROPÄISCHEN PATENTS (EPA Form 2006)

- EPA Informationsbroschüre "Nationales Recht zum EPU"**
Diese Broschüre enthält nützliche Informationen zu den formalen Erfordernissen und den Handlungen die vor den Patentbehörden der Vertragsstaaten vorzunehmen sind um Rechte in diesen Staaten zu erlangen. Da diese Handlungen einem ständigen Wandel unterworfen sind sollte immer nur die neueste Ausgabe der Broschüre benutzt werden. Nachträgliche Informationen werden im Amtsblatt veröffentlicht.
- Übersetzung der europäischen Patentschrift nach Artikel 65(1) des Europäischen Patentübereinkommens**
Sie werden erneut darauf hingewiesen dass bestimmte Vertragsstaaten nach Artikel 65(1) EPU eine Übersetzung der europäischen Patentschrift verlangen. Hierauf wird in der Mitteilung gemäß Regel 51(6) verwiesen. Die Nichteinreichung dieser Übersetzung kann zur Folge haben dass das Patent in dem betreffenden Staat/in den betreffenden Staaten als von Anfang an nicht eingetreten gilt. Weitere Einzelheiten entnehmen Sie bitte der oben genannten Broschüre.
- Zahlung von Jahresgebühren für europäische Patente**
Nach Artikel 141 EPU können nationale Jahresgebühren für das europäische Patent für die Jahre erhoben werden die an das Jahr anschließen in dem der Hinweis auf die Erteilung des europäischen Patents im Europäischen Patentblatt bekanntgemacht wird. Weitere Einzelheiten entnehmen Sie bitte der oben genannten Broschüre.

NOTE RELATING TO THE DECISION TO GRANT A EUROPEAN PATENT (EPO Form 2006)

- EPO Information Brochure "National law relating to the EPC"**
This brochure provides useful information regarding formal requirements and the steps to be taken before the patent authorities of the Contracting States in order to acquire rights in those states. Since the necessary steps are subject to change the latest edition of the brochure should always be used. Subsequent information is published in the Official Journal.
- Translation of the European patent specification under Article 65(1) of the European Patent Convention**
Your attention is again drawn to the requirements regarding translation of the European patent specification laid down by a number of Contracting States under Article 65(1) EPC to which reference is made in the communication under Rule 51(6). Failure to supply such translation(s) may result in the patent being deemed to be void "ab initio" in the State(s) in question. For further details you are recommended to consult the above-mentioned brochure.
- Payment of renewal fees for European patents**
Under Article 141 EPC national renewal fees in respect of a European patent may be imposed for the years which follow that in which the mention of the grant of the European patent is published in the European Patent Bulletin. For further details you are recommended to consult the above-mentioned brochure.

REMARQUE RELATIVE A LA DECISION DE DELIVRANCE D'UN BREVET EUROPEEN (OEB Form 2006)

- Brochure d'information de l'OEB "Droit national relatif à la CBE"**
Cette brochure fournit d'utiles renseignements sur les conditions de forme requises et sur les actes à accomplir auprès des offices de brevet des Etats contractants aux fins d'obtenir des droits dans les Etats contractants. Etant donné que les actes indispensables sont susceptibles de modifications, il serait bon de toujours consulter la dernière édition de la brochure. Toute information ultérieure est publiée au Journal Officiel.
- Traduction du fascicule du brevet européen en vertu de l'article 65(1) de la Convention sur le brevet européen**
Votre attention est de nouveau attirée sur l'obligation faite par certains Etats contractants en vertu de l'article 65(1) CBE de fournir une traduction du fascicule du brevet européen à laquelle il est fait référence dans la notification établie conformément à la règle 51(6). Si la(les) traduction(s) n'est(ne sont) pas fournie(s) le brevet européen peut dès l'origine être réputé sans effet dans cet(ces) Etat(s). Pour plus de détails nous vous renvoyons à la brochure susmentionnée.
- Paiement des taxes annuelles pour le brevet européen**
Conformément à l'article 141 CBE les taxes annuelles nationales dues au titre du brevet européen peuvent être perçues pour les années suivant celle au cours de laquelle la mention de la délivrance du brevet européen est publiée au Bulletin européen des brevets. Pour plus de détails nous vous renvoyons à la brochure susmentionnée.



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Application No 00 123 713 0 1213	Ref P NATH-6/EP	Date 26 11 2002
Applicant ORMAT INDUSTRIES LTD		

Communication pursuant to Article 96(2) EPC

The examination of the above-identified application has revealed that it does not meet the requirements of the European Patent Convention for the reasons enclosed herewith. If the deficiencies indicated are not rectified the application may be refused pursuant to Article 97(1) EPC.

You are invited to file your observations and insofar as the deficiencies are such as to be rectifiable to correct the indicated deficiencies within a period

of 4 months

from the notification of this communication, this period being computed in accordance with Rules 78(2) and 83(2) and (4) EPC.

One set of amendments to the description, claims and drawings is to be filed within the said period on separate sheets (Rule 36(1) EPC).

Failure to comply with this invitation in due time will result in the application being deemed to be withdrawn (Article 96(3) EPC).



GILLIQUET J H L
Primary Examiner
for the Examining Division

Enclosure(s) 4 page/s reasons (Form 2906)

	Beschold/Protokoll (Anlage)		Communication/Minutes (Annex)		Notification/Procès-verbal (Annexe)	
	Datum Date Date	26 11 2002	Blatt Sheet Feuille	1	Anmelde-Nr Application No Demande n	00 123 713 0

The examination is being carried out on the following application documents

Text for the Contracting States
AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE LI

Description, pages

1 18 as originally filed

Claims, No

1 10 as originally filed

Drawings No

1 1A 2 9 as published

The following documents (D) are referred to in this communication the numbering will be adhered to in the rest of the procedure

- D1 EP A 0 673 989 (SHELL INT RESEARCH) 27 September 1995 (1995-09 27)
- D2 US A 4 087 354 (HESSLER NORMAN F) 2 May 1978 (1978 05 02)

1 Novelty

1 1 None of the documents of the prior art on file discloses an apparatus as described in independent claim 1 nor a process as described in independent claim 4 so that the subject matter of these claims can be considered as new in the sense of Article 54(1) and (2) EPC

2 Inventive step

2 1 Document D1 which is considered to represent the most relevant state of the art, discloses a process for processing heavy hydrocarbon feed (See claims 1 3 8 10 page 4 l 26 37 page 5 l 15 44 and figure 2 of D1) compnsing

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	Bescheid/Protokoll (Anlage)		Communication/Minutes (Annex)		Notification/Procès-verbal (Annexe)	
	Datum Date	26 11 2002	Blatt Sheet Feuille	2	Anmelde-Nr. Application No Demande n	00 123 713 0

- a) an atmospheric fractionating tower for fractionating the heavy hydrocarbon feed fed to the inlet of the atmospheric fractionating tower producing light atmospheric fractions and atmospheric bottoms
- b) a vacuum fractionating tower for fractionating said atmospheric bottoms and producing light vacuum fractions and vacuum residue,
- c) a solvent deasphalting (SDA) unit for producing deasphalting oil (DAO) and asphaltenes from said vacuum residue
- d) a thermal cracker for thermally cracking said deasphalted oil and producing a thermally cracked product which is recycled to the inlet of said atmospheric fractionating tower, and
- e) a further cracker for thermally cracking said light vacuum fractions for producing a further thermally cracked product which is recycled to the inlet of said atmospheric fractionating tower

2 2 The subject matter of present independent claim 1 which relates to an apparatus and claim 4 which relates to a process differs from D1 in that the feed and the atmospheric bottoms are heated while in D1 no heaters or heating is disclosed nor suggested

2 3 The applicant claims (See page 6 lines 6 8) that the problem solved by the present application is how to improve the process of upgrading heavy hydrocarbons and to provide an apparatus therefore He also claims that the process overcomes the disadvantages of the techniques of the prior art

2 4 The solution consists in a process in which the feed and the atmospheric bottoms are heated However it is not clear in which way the use of heaters may contribute to improve the process in a non obvious way in relation to the process and application used in D1 The use of heaters in similar processes in order to improve the integration of the heat exchange of the process is known (See for example the abstract and figure 1 of Document D2) so that it is an available mean at the disposal of the skilled person in the art in order to improve the process disclosed in D1 Till now no other improvement has been demonstrated by the applicant

	Bescheid/Protokoll (Anlage)		Communication/Minutes (Annex)		Notification/Procès-verbal (Annexe)	
	Datum Date	26 11 2002	Blatt Sheet Feuille	3	Anmelde-Nr. Application No Demande n°	00 123 713 0

2 5 As such the apparatus disclosed in present independent claim 1 and method disclosed in present independent claim 4 are to be considered as an alternative to the apparatus and method disclosed in D1 for which generally spoken no inventive step can be recognised (Articles 52(1) and 56 EPC)

3 Dependent claims

3 1 The subject matter of dependent claims 2 and 5 7 of the present application is disclosed in document D1 (See page 5 lines 15 24 and figure 2 of D1), so that the skilled person would regard it as a normal option to include it in the process described in the present application in order to solve the problem posed. Therefore it does not involve an inventive step and does not satisfy the criterion set forth in Articles 52(1) and 56 EPC.

3 2 The features of dependent claims 3 8 10 are neither known from, nor rendered obvious by the available prior art. It is suggested therefore that new independent claims be drafted to include these features. The applicant is requested to file new claims which take account of the above comments and of Article 123(2) and Rule 29(1) EPC. The applicant should also indicate in the letter of reply the difference of the subject matter of the new independent claims vis à vis the state of the art (document D1) and the significance thereof, i.e. the applicant should discuss the novelty and the inventive step following the problem solution approach as developed by the board of appeal (see the Guidelines C IV 9 5).

4 To meet the requirements of Rule 27(1)(b) EPC, the documents D1 and D2 should be identified in the description and the relevant background art disclosed therein should be briefly discussed.

5 When filing amended claims the applicant should at the same time bring the description into conformity with the amended claims. Care should be taken during revision especially of the introductory portion and any statements of problem or advantage not to add subject matter which extends beyond the content of the application as originally filed (Article 123(2) EPC).

	Bescheid/Protokoll (Anlage)		Communication/Minutes (Annex)		Notification/Procès-verbal (Annexe)	
	Datum Date	26 11 2002	Blatt Sheet Feuille	4	Anmelde-Nr Application No Demande n	00 123 713 0

6 In order to facilitate the examination of the conformity of the amended application with the requirements of Article 123(2) EPC the applicant is requested to clearly identify the amendments carried out irrespective of whether they concern amendments by addition, replacement or deletion, and to indicate the passages of the application as filed on which these amendments are based

If the applicant regards it as appropriate these indications could be submitted in handwritten form on a copy of the relevant parts of the application as filed



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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication where appropriate of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 7)
Y	EP 0 673 989 A (SHELL INT RESEARCH) 27 September 1995 (1995-09-27) * page 5, line 15 - line 44, claims 1,3,8,10, figure 2 * * page 4, line 26 - line 37 *	1,2,4-7	C10G55/00 C10G55/04 C10G51/02 C10G69/00 C10G51/06
Y	US 4 087 354 A (HESSLER NORMAN F) 2 May 1978 (1978-05-02) * figure 1 *	1,2,4-7	
A	US 4 640 762 A (WOODS H JOHN ET AL) 3 February 1987 (1987-02-03) * column 15 line 14 - line 16, claims 1,4,5, figures 1,2 *	1-10	
P,A	EP 0 984 054 A (ORMAT IND LTD) 8 March 2000 (2000-03-08) * figure 1 *	1-10	
D,A	GR 98 100 301 A (ORMAT PROCESS TECHNOLOGIES INC) 30 April 1999 (1999-04-30)	1	TECHNICAL FIELDS SEARCHED (Int. Cl. 7)
D,P, A	& US 5 976 361 A (BRONICKI LUCIEN Y ET AL) 2 November 1999 (1999-11-02) * figures 1A,1B *	1	C10G
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 5 April 2002	Examiner Gilliquet, J-N
CATEGORY OF CITED DOCUMENTS			
X particularly relevant if taken alone Y particularly relevant if combined with another document of the same category A technological background O non-written disclosure P intermediate document		T theory or principle underlying the invention E earlier patent document but published on or after the filing date D document cited in the application L document cited for other reasons & member of the same patent family corresponding document	

3
EPO FORM 1503 03.02 (P04 Cat 1)

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ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO

EP 00 12 3713

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information

05-04-2002

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0673989	A	27-09-1995	EP 0673989 A2	27-09-1995
			AU 688842 B2	19-03-1998
			AU 1492995 A	28-09-1995
			CA 2145060 A1	23-09-1995
			CN 1112600 A	29-11-1995
			JP 7286183 A	31-10-1995
			ZA 9502267 A	29-11-1995
US 4087354	A	02-05-1978	NONE	
US 4640762	A	03-02-1987	CA 1222471 A1	02-06-1987
			DE 3667179 D1	04-01-1990
			EP 0216448 A1	01-04-1987
			JP 62030189 A	09-02-1987
			NL 8601695 A	16-01-1987
EP 0984054	A	08-03-2000	US 6274003 B1	14-08-2001
			US 6183627 B1	06-02-2001
			AU 5754999 A	27-03-2000
			BR 9904043 A	29-08-2000
			CN 1323339 T	21-11-2001
			EP 0984054 A2	08-03-2000
			WO 0014178 A1	16-03-2000
GR 98100301	A	30-04-1999	TR 9902131 A2	21-04-2000
			US 5976361 A	02-11-1999
			BR 9803148 A	21-12-1999
			US 2001002654 A1	07-06-2001

EPO FORM P0459

For more details about this annex see Official Journal of the European Patent Office No 12/82

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Datum/Date

16 04 02

Zeichen/Ref./Réf

P-NATH-6/EP

Anmeldung Nr./Application No./Demande n /Patent Nr /Patent No./Brevet n

00123713 0-1213-

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire

ORMAT INDUSTRIES, LTD

COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application

If applicable copies of the documents cited in the European search report are attached

☒ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well

The following specifications given by the applicant have been approved by the Search Division

☒ abstract

☒ title

☐ The abstract was modified by the Search Division and the definitive text is attached to this communication

The following figure will be published together with the abstract 1

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees a separate communication from the Receiving Section on the refund of the search fee will be sent later



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INTERNATIONAL SEARCH REPORT

International application No
PCT/US00/29923

A CLASSIFICATION OF SUBJECT MATTER IPC(7) C10G 55/02 US CL 208/72 According to International Patent Classification (IPC) or to both national classification and IPC																						
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) US 208/72 7# 86, 89 92 128 129 130, 131 309 422/189 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)																						
C DOCUMENTS CONSIDERED TO BE RELEVANT																						
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No																				
X	US 4 039,429 A (VAN KLINKEN et al) 02 August 1977, Figure 1, column 3 line 50	1,4-6																				
Y		2,3,7-9																				
A P	US 5,976,361 A (HOOD et al) 02 November 1999	2,3,7,8,9																				
Y	US 4,686 028 A (VAN DRIESEN et al) 11 August 1987 Figure	2,3,7,8,9																				
A	US 4,500 416 A (VAN DONGEN et al) 19 February 1985																					
☐ Further documents are listed in the continuation of Box C ☐ See patent family annex																						
Special categories of cited documents. <table border="0"> <tr> <td>A</td> <td>document defining the general state of the art which is not considered to be of particular relevance</td> <td>T</td> <td>later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>E</td> <td>earlier document published on or after the international filing date</td> <td>X</td> <td>document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>L</td> <td>document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>Y</td> <td>document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>O</td> <td>document referring to an oral disclosure, use, exhibition or other means</td> <td>A</td> <td>document member of the same patent family</td> </tr> <tr> <td>P</td> <td>document published prior to the international filing date but later than the priority date claimed</td> <td></td> <td></td> </tr> </table>			A	document defining the general state of the art which is not considered to be of particular relevance	T	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	E	earlier document published on or after the international filing date	X	document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	L	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	Y	document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	O	document referring to an oral disclosure, use, exhibition or other means	A	document member of the same patent family	P	document published prior to the international filing date but later than the priority date claimed		
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Date of the actual completion of the international search 20 FEBRUARY 2001		Date of mailing of the international search report 12 MAR 2001																				
Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington D C 20231 Facsimile No (703) 305 3230		Authorized officer RICK VARCOE Telephone No (703) 308-0661 DEBORAH THOMAS PARALEGAL SPECIALIST																				