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ABOGADOS

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SUPERINDUSTRIA Y COMERCIO

Radicación : 05067475 00000002

Folios: 19

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Trámite : 011 PCT-PATENT 379 FASE NACI 444 RESPUESTA

Dependencia: 2020 DIVISION DE NUEVAS CREACIONES

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Señora Jefe de la
DIVISION DE NUEVAS CREACIONES
Superintendencia de Industria y Comercio
E. S. D.

Trámite : 011

Evento : 379

Actuación: 444

Referencia : Expediente No. 05067475
Asunto : Solicitud de patente para **EARLY DETERMINATION OF NETWORK SUPPORT FOR MOBILE IP**
Solicitante : **QUALCOMM INCORPORATED**
Fecha solicitud : 8 de Julio de 2005

1. Yo, Emilio FERRERO, obrando como apoderado del solicitante en el asunto antes identificado, me refiero al Oficio N° 8459, notificado por fijación en lista de 16 de septiembre de 2005.

2. Mediante el Oficio N° 8459 se puso en conocimiento del solicitante el informe que contiene las observaciones hechas por ese Despacho sobre la presente solicitud de patente. Atiendo a las observaciones de la manera siguiente:

2.1. Traducción de los anexos del Reporte de Examen Preliminar Internacional: Informo a ese Despacho que el Reporte de Examen Preliminar Internacional expedido en el trámite de la solicitud internacional, no contiene anexos. En todo caso, acompaño con este escrito una copia del Reporte de Examen Preliminar Internacional.

2.2. Cesión: Presento junto con este escrito el documento en que consta la cesión del derecho a la patente de los inventores Jeffrey DICK, Marcello LIOY y Nischal ABROL a favor de la sociedad **QUALCOMM INCORPORATED**, debidamente

notarizado y legalizado por Apostilla, junto con su respectiva traducción oficial al español.

3. Puesto que se han atendido a cabalidad las observaciones hechas por ese Despacho sobre la presente solicitud de patente de invención, atentamente solicito que se continúe su tramitación y se ordene la publicación en la Gaceta de la Propiedad Industrial.

Bogotá, 10 NOV. 2005
Señora Jefe,



EMILIO FERRERO
T.P.A. No. 31.929

COLO 14439-841-004-9
OCB/JJR/
ID-000026/WPC14439

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 020631WO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/US03/39587	International filing date (day/month/year) 11 December 2003 (11.12.2003)	Priority date (day/month/year) 12 December 2002 (12.12.2002)
International Patent Classification (IPC) or national classification and IPC IPC(7): H04Q 07/20 and US Cl.: 455/445		
Applicant QUALCOMM INCORPORATED		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.

2. This REPORT consists of a total of 3 sheets, including this cover sheet.

☐ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of — sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of report with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☒ Certain observations on the international application

Date of submission of the demand 08 July 2004 (08.07.2004)	Date of completion of this report 09 May 2005 (09.05.2005)
Name and mailing address of the IPEA/US Mail Stop PCT, Attn: IPEA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	Authorized officer Marsha Banks-Harold <i>Rugenia Zogor</i> Telephone No. (703) 305-3900

Form PCT/IPEA/409 (cover sheet)(July 1998)

I. Basis of the report

1. With regard to the elements of the international application:*

- ☒ the international application as originally filed.
- ☒ the description:
pages 1-23 _____ as originally filed
pages NONE _____, filed with the demand
pages NONE _____, filed with the letter of _____.
- ☒ the claims:
pages 24-27 _____, as originally filed
pages NONE _____, as amended (together with any statement) under Article 19
pages NONE _____, filed with the demand
pages NONE _____, filed with the letter of _____.
- ☒ the drawings:
pages 1-10 _____, as originally filed
pages NONE _____, filed with the demand
pages NONE _____, filed with the letter of _____.
- ☐ the sequence listing part of the description:
pages NONE _____, as originally filed
pages NONE _____, filed with the demand
pages NONE _____, filed with the letter of _____.

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in printed form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages NONE
- ☐ the claims, Nos. NONE
- ☐ the drawings, sheets/fig NONE

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.
PCT/US03/39587

V. Reasoned statement under Rule 66.2(a)(II) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. STATEMENT

Novelty (N)	Claims <u>1-20</u>	YES
	Claims <u>NONE</u>	NO
Inventive Step (IS)	Claims <u>NONE</u>	YES
	Claims <u>1-20</u>	NO
Industrial Applicability (IA)	Claims <u>1-20</u>	YES
	Claims <u>NONE</u>	NO

2. CITATIONS AND EXPLANATIONS

Please See Continuation Sheet

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US03/39587

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

Claim 5 is objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents thereof: an extra period is present at the end of the claim.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/US03/39587

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claims 1-20 objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims 1, 8, 15 and 20 are indefinite for the following reason(s):

The examiner reads two different tests: first, whether the network supports Mobile IP and second, whether authentication is required by the network. Although these two tests may be related, it is unclear which determines whether the disconnect condition is satisfied. Further, it is unclear which result in either of the tests satisfies the disconnect condition. For example, if the network does support Mobile IP, does the node connect to the network or disconnect from the network?

Supplemental Box
(To be used when the space in any of the preceding boxes is not sufficient)

Claims 1, 2, 5, 6, 8-10, 13, 15, 18 and 20 lack an inventive step under PCT Article 33(3) as being obvious over Lioy in view of Simpson.

Regarding claim 1, Lioy discloses a system for establishing a packet switched network connection between a mobile terminal device and a packet network (see page 1, lines 7-10), which reads on the claimed "method for a mobile node configured for communication in a wireless communication system". The establishment of data and packet links between a mobile terminal device 12 and network via interworking function 18 is initiated by mobile terminal device 12 by sending an LCP configure packet to mobile communication device 14 (see figure 3 and page 8, lines 27-33), which reads on the claimed "connecting to a wireless network". A determination is made as to whether mobile IP is supported by the packet network, and when mobile IP is not supported, the other acts are not performed (see page 6, lines 16-21), which reads on the claimed "testing for a disconnect condition, wherein the disconnect condition is an early indication of network support for Mobile IP". Lioy fails to expressly disclose determining that authentication is required.

Simpson discloses that if an implementation desires that the peer authenticate with some specific authentication protocol, then it must request the use of that authentication protocol during the link establishment phase (see section 3.5, pages 8-9) and further that if no authentication is required, the network connection continues (see section 3.2, page 7), which reads on the claimed "staying connected to the wireless network if the disconnect condition is not satisfied". If the authentication fails, the link is terminated (see section 3.2, page 7), which reads on the claimed "disconnecting from the wireless network if the disconnect condition is satisfied".

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Lioy with Simpson to include the above authentication in order to enhance privacy and security.

Regarding claim 2, the combination of Lioy and Simpson discloses that PPP can terminate the link and any time for numerous conditions, including loss of carrier, link quality failure and expiration of an idle-period timer (see Simpson section 3.7, page 10), which reads on the claimed "the disconnect condition comprises a plurality of disconnect conditions, and wherein testing for the disconnect condition comprises: testing for satisfaction of any of the plurality of disconnect conditions".

Regarding claim 5, the combination of Lioy and Simpson discloses that wireless communication device 14 asserts control on mobile terminal device 12 by responding with a Configure-Nak comprising hint values that will cause mobile terminal device 12 to respond with other Configure-Request packets that are sure to be rejected by wireless communication device 14. This can be done until such time as the flow control is to be terminated, at which point a deassertion is caused by providing valid values to mobile terminal device 12 (see Lioy page 10, line 27 - page 11, line 2), which reads on the claimed "detecting receipt of a config-not-acknowledge comprising an IP address option during IPCP negotiation the wireless network sends, which satisfies the disconnect condition".

Regarding claim 6, the combination of Lioy and Simpson discloses that a determination is made as to whether mobile IP is supported by the packet network, and when mobile IP is not supported, the other acts are not performed (see Lioy page 6, lines 16-21), which reads on the claimed "determining if the protocol version supported by the wireless network is compatible with a predetermined protocol version supporting Mobile IP".

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Regarding claim 8, Lloy discloses a system for establishing a packet switched network connection between a mobile terminal device and a packet network (see page 1, lines 7-10). The establishment of data and packet links between a mobile terminal device 12 and network via interworking function 18 is initiated by mobile terminal device 12 by sending an LCP configure packet to mobile communication device 14 (see figure 3 and page 8, lines 27-33). A determination is made as to whether mobile IP is supported by the packet network, and when mobile IP is not supported, the other acts are not performed (see page 6, lines 16-21), which reads on the claimed "test for a disconnect condition" and "wherein the disconnect condition identified network non-support for Mobile IP". Lloy fails to expressly disclose determining that authentication is required.

Simpson discloses that if an implementation desires that the peer authenticate with some specific authentication protocol, then it must request the use of that authentication protocol during the link establishment phase (see section 3.5, pages 8-9) and further that if no authentication is required, the network connection continues. If the authentication fails, the link is terminated (see section 3.2, page 7), which reads on the claimed "wherein the disconnect connect condition includes determination of an authentication requirement for the wireless network" and "wherein the instructions disconnect from the wireless network if the disconnect condition is found".

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Lloy with Simpson to include the above authentication in order to enhance privacy and security.

Regarding claim 9, the combination of Lloy and Simpson discloses that PPP can terminate the link and any time for numerous conditions, including loss of carrier, link quality failure and expiration of an idle-period timer (see Simpson section 3.7, page 10), which reads on the claimed "the disconnect condition comprises a plurality of disconnect conditions".

Regarding claim 10, the combination of Lloy and Simpson discloses that a determination is made as to whether mobile IP is supported by the packet network, and when mobile IP is not supported, the other acts are not performed (see Lloy page 6, lines 16-21), which reads on the claimed "determining if the protocol version supported by the wireless network is compatible with a predetermined protocol version supporting Mobile IP".

Regarding claim 13, the combination of Lloy and Simpson discloses that wireless communication device 14 asserts control on mobile terminal device 12 by responding with a Configure-Nak comprising hint values that will cause mobile terminal device 12 to respond with other Configure-Request packets that are sure to be rejected by wireless communication device 14. This can be done until such time as the flow control is to be terminated, at which point a deassertion is caused by providing valid values to mobile terminal device 12 (see Lloy page 10, line 27 - page 11, line 2), which reads on the claimed "detecting receipt of a config-not-acknowledge comprising an IP address option during IPCP negotiation the wireless network sends, which satisfies the disconnect condition".

Regarding claim 15, Lloy discloses a system for establishing a packet switched network connection between a mobile terminal device and a packet network (see page 1, lines 7-10), which reads on the claimed "method for a mobile node configured for communication in a wireless communication system". The establishment of data and packet links between a mobile terminal device 12 and network via interworking function 18 is initiated by mobile terminal device 12 by sending an LCP configure packet to mobile communication device 14 (see figure 3 and page 8, lines 27-33), which reads on the claimed "connecting to a wireless network". A determination is made as to whether mobile IP is supported by the packet network, and when mobile IP is not supported, the other acts are not performed (see page 6, lines 16-21), which reads on the claimed "testing for a disconnect condition, wherein the disconnect condition is an early indication of network support for Mobile IP". Lloy fails to expressly disclose determining that authentication is required.

Simpson discloses that if an implementation desires that the peer authenticate with some specific authentication protocol, then it must request the use of that authentication protocol during the link establishment phase (see section 3.5, pages 8-9) and further that if no authentication is required, the network connection continues (see section 3.2, page 7), which reads on the claimed "staying connected to the wireless network if the disconnect condition is not satisfied". If the authentication fails, the link is terminated (see section 3.2, page 7), which reads on the claimed "disconnecting from the wireless network if the disconnect condition is satisfied".

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Lloy with Simpson to include the above authentication in order to enhance privacy and security.

Regarding claim 18, the combination of Lloy and Simpson discloses that wireless communication device 14 asserts control on mobile terminal device 12 by responding with a Configure-Nak comprising hint values that will cause mobile terminal device 12 to respond with other Configure-Request packets that are sure to be rejected by wireless communication device 14. This can be done until such time as the flow control is to be terminated, at which point a deassertion is caused by providing valid values to mobile terminal device 12 (see Lloy page 10, line 27 - page 11, line 2), which reads on the claimed "detecting receipt of a config-not-acknowledge comprising an IP address option during IPCP negotiation the wireless network sends, which satisfies the disconnect condition".

Regarding claim 20, Lloy discloses a system for establishing a packet switched network connection between a mobile terminal device and a packet network (see page 1, lines 7-10). The establishment of data and packet links between a mobile terminal device 12 and network via interworking function 18 is initiated by mobile terminal device 12 by sending an LCP configure packet to mobile communication device 14 (see figure 3 and page 8, lines 27-33), which reads on the claimed "means for connecting to a wireless network". A determination is made as to whether mobile IP is supported by the packet network, and when mobile IP is not supported, the other acts are not performed (see page 6, lines 16-21), which reads on the claimed "means for testing for a disconnect condition, wherein the disconnect condition is an early indication of network support for Mobile IP". Lloy fails to expressly disclose determining that authentication is required.

Supplemental Box

(To be used when the space in any of the preceding boxes is not sufficient)

Simpson discloses that if an implementation desires that the peer authenticate with some specific authentication protocol, then it must request the use of that authentication protocol during the link establishment phase (see section 3.5, pages 8-9) and further that if no authentication is required, the network connection continues (see section 3.2, page 7), which reads on the claimed "means for staying connected to the wireless network if the disconnect condition is not satisfied". If the authentication fails, the link is terminated (see section 3.2, page 7), which reads on the claimed "means for disconnecting from the wireless network if the disconnect condition is satisfied".

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify Lioy with Simpson to include the above authentication in order to enhance privacy and security.

Claims 3, 4, 7, 11, 12, 14, 16, 17 and 19 an inventive step under PCT Article 33(3) as being obvious over the prior art as applied in the immediately preceding paragraph and further in view of the 3GPP2 document ("Wireless IP Network Standard").

Regarding claims 3, 11 and 16, the combination of Lioy and Simpson fails to disclose the use of CHAP.

The 3GPP2 document discloses that the mobile may receive a request for CHAP authentication (see page 31, lines 41-47).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the combination of Lioy and Simpson with the 3GPP2 document to include the reception of CHAP authentication requests in order to further compatibility with systems that prefer CHAP authentication.

Regarding claims 4, 12 and 17, the combination of Lioy and Simpson fails to disclose the use of PAP.

The 3GPP2 document discloses that the mobile station may receive a CHAP or PAP authentication request (see page 24, lines 16-18 and page 25, lines 6-11).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the combination of Lioy and Simpson with the 3GPP2 document to include the reception of PAP authentication requests in order to further the compatibility with systems that prefer PAP.

Regarding claims 7, 14 and 19, the combination of Lioy and Simpson fails to teach the use of agent solicitation messages.

The 3GPP2 document discloses the use of agent solicitation messages and that an agent advertisement message will be sent to the mobile upon receipt of an agent solicitation message (see page 25, lines 27-34).

It would have been obvious to a person of ordinary skill in the art at the time of the invention to modify the combination of Lioy and Simpson with the 3GPP2 document in order to support the current standard of using agent solicitation and advertisement messages.

NEW CITATIONS

WO 00/76173 A1 (LIOY) 14 December 2000, see figure 3: page 5, line 15 - page 6, line 27; page 8, line 1 - page 10, line 33

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APOSTILLE

(Convention de La Haye du 5 octobre 1961)

1. Country: United States of America

This public document

2. has been signed by L. Edelen

3. acting in the capacity of Certifying Officer

4. bears the seal/stamp of U.S. Patent and Trademark Office

Certified

5. at Washington, D.C.

6. the twelfth of October, 2005

7. by Assistant Authentication Officer, United States Department of State

8. No. 06000926-2

9. Seal/Stamp:

10. Signature:



Patrick O. Hatchett

Columbia
122

A 1374188



THE UNITED STATES OF AMERICA

~~TO ALL TO WHOM THESE PRESENTS SHALL COME:~~

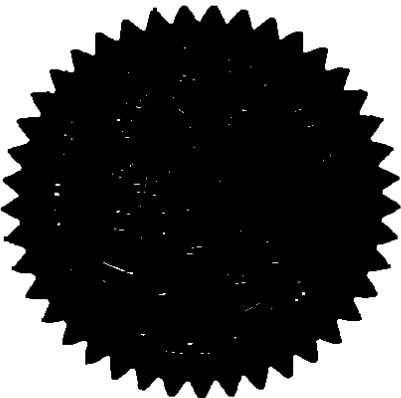
UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

October 04, 2005

THIS IS TO CERTIFY THAT ANNEXED IS A TRUE COPY FROM THE
RECORDS OF THIS OFFICE OF A DOCUMENT RECORDED ON
May 23, 2003.

By Authority of the
Under Secretary of Commerce for Intellectual Property
and Director of the United States Patent and Trademark Office



L. Edelen

L. EDELEN
Certifying Officer

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FORM PTO-1619A/B		05-28-2003		U.S. Department of Commerce Patent and Trademark Office PATENT	
102458295		1 STREET		Customer No.: 23896 Attorney Docket No.: 020631	
TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).					
Submission Type ☐ New ☐ Renewal/Extension (Non-Recordation) Document ID No. ☐ Correction of PTO Error Reel No. Frame No. ☐ Corrective Document Reel No. Frame No.		523-03		Conveyance Type ☐ Assignment ☐ Change of Name ☐ License ☐ Merger ☐ Security Agreement ☐ Other: _____	
Conveying Party(ies) NAME 1. Jeffrey Alan Dyck 2. Marcello Liby 3. Nischal Abrol 4.		☐ Mark if additional names are attached		EXECUTION DATE Month, Day, Year (MMDDYYYY) 05/15/2003 05/14/2003 05/19/2003	
Receiving Party Name: QUALCOMM Incorporated A Delaware Corporation Address (Street number and name): 5775 Morehouse Drive Address (City, State, Zip Code): San Diego, California, 92121-1714		☐ Mark if additional names are attached			
Correspondent Name and Address Name: QUALCOMM Incorporated Attn: Patent Department Address: 5775 Morehouse Drive Address: San Diego, California 92121-1714				Telephone Numbers (RSH) 651-4470 Facsimile (RSH) 658-2502	
Pages (Enter the total number of pages including the Recordation Sheet) Total number of pages: 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:					
Patent Application Number(s) 1. 10/318,778 filed 12/12/2002 2. _____ 3. _____ 4. _____		Patent Number(s) 1. _____ 2. _____ 3. _____ 4. _____			
Patent Cooperation Treaty (PCT) (Enter only if a U.S. Application Number has not been assigned) 1. PCT/ _____ 3. PCT/ _____ 2. PCT/ _____ 4. PCT/ _____					
Number of Properties (Enter the total number of properties involved) Total number of properties: 1					
Fee Amount Fee Amount for Properties Listed (37 CFR 3.41): \$40.00 Method of Payment: ☐ Enclosed ☒ Deposit Account (Enter fee payment by deposit account or if additional fees can be charged to the account. (or fee processing) Deposit Account Number: 17-0026 Authorization to charge additional fees: ☒ Yes ☐ No					
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. Charges to deposit account are authorized, as indicated herein. Date: May 20, 2003 Name: Sandra L. Godoy, Reg. No. 42,589 (RSH) 651-4317 Signature: <i>Sandra L. Godoy</i> SR 8?? fu					
FOR OFFICE USE ONLY					

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Page 1 of 1

(TRANSACTION VERSION 1.6-1/17/2001)

PATENT
REEL: 014095 FRAME: 0161

124.

ASSIGNMENT

TO WHOM IT MAY CONCERN:

For the sum of One Dollar and other valuable consideration to us in hand paid, receipt of which is hereby acknowledged, be it known that we, Jeffrey Alan Dyck, a citizen of Canada having a place of residence at 4818 Mt. Harris Drive, San Diego, California 92117; Marcello Lloy, a citizen of Canada having a place of residence at 11829 Miro Circle, San Diego, California 92131; and Nischal Abrol, a citizen of India having a place of residence at 7280 Calle Cristobal, #41, San Diego, California 92126; have sold, assigned and transferred and by these presents do sell, assign, transfer and set over unto QUALCOMM Incorporated, a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, its successors, legal representatives, or assigns, the whole right, title and interest in and to a certain invention relating to a **SYSTEMS AND METHODS FOR EARLY DETERMINATION OF NETWORK SUPPORT FOR MOBILE IP** by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on 12/12/2002, and assigned Serial No. 10/318,778, and all original and release patents granted thereof, and all divisions, and continuations thereof, including the subject matter of any and all claims which may be obtained in every such patent, and all foreign rights to said invention, and covenant that we have full right to do so, and agree that we will communicate to said corporation or its representatives all facts known to us respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, make all rightful oaths and generally do everything possible to aid said corporation, its successors, assigns and nominees, to obtain and enforce proper patent protection for said invention in all countries.

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The Commissioner of Patents and Trademarks is requested to issue the Letters Patent which may be granted for said invention or any part thereof unto said corporation in keeping with this Assignment.

Done at San Diego, California this 15 day of MAY, 2003.

Jeffrey Alan Dyck
Jeffrey Alan Dyck

Done at San Diego, California this 14 day of MAY, 2003.

Marcello L. Doy
Marcello Doy

Done at San Diego, California this 19 day of May, 2003.

Nischal Abrol
Nischal Abrol

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TRADUCCIÓN OFICIAL No. 10.20/05a realizada por Diego Vargas, Traductor Oficial, Resolución N . 0001 de 1999 del Ministerio de Justicia y registrado ante el Ministerio de Relaciones Exteriores de Colombia.

A 431745

LOS ESTADOS UNIDOS DE AMÉRICA

A TODOS A QUIENES LOS PRESENTES LLEGAREN:

DEPARTAMENTO DE COMERCIO DE LOS ESTADOS UNIDOS

OFICINA DE MARCAS Y PATENTES DE LOS ESTADOS UNIDOS

4 de Octubre de 2005

**EL PRESENTE ES PARA CERTIFICAR QUE LA ADJUNTA ES UNA
COPIA FIEL DE LOS ARCHIVOS DE ESTA OFICINA DE UN
DOCUMENTO INSCRITO EL 23 de Mayo de 2003.**



Por autorización del
Subsecretario de Comercio para la
Propiedad Intelectual y Director de la
Oficina de Marcas y Patentes de los
Estados Unidos

Firma Ilegible
L. EDELEN
Funcionario de Autenticaciones

Sello:

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127 28

FORMATO PTO-1619 A/B		DEPARTAMENTO DE COMERCIO DE EE.UU.	
05-28-2003		OFICIA DE MARCAS Y PATENTES	
CÓDIGO DE BARRAS		PATENTE	
102458295		Cliente No. 23696	
		Referencia del Apoderado No.: 020631	
PARA: El Honorable Comisionado de Marcas y Patentes. Por favor registrar el original de los documentos anexos o copia de los mismos.			
Tipo de presentación: ☐ Nueva 5*23*03 ☐ Resolicitud (Sin registro) Id. del Documento No. ☐ Corrección de Error de la OMP Rollo No. Cuadro No. ☐ Documento de Corrección Rollo No. Cuadro No.		Nombre de la Transferencia: ☐ Cesión ☐ Cambio de Nombre ☐ Licencia ☐ Fusión ☐ Contrato de Garantías ☐ Otro _____	
Parte transferente NOMBRE 1. Jeffrey Alan Dyck 2. Marcello Liocy 3. Nischal Abrol 4.		☐ Marque si se adjuntan nombres adicionales FECHA DE SUSCRIPCIÓN Mes, Día, Año (MMDDAAAA) 05/15/2003 05/14/2003 05/19/2003	
Parte receptora Nombre: QUALCOMM Incorporated Una sociedad de Delaware Dirección (Dirección y nombre): Dirección (Ciudad, Estado, Código Postal):		☐ Marque si se adjuntan nombres adicionales 5775 Morehouse Drive San Diego, California 92121-1714	
Nombre y Dirección para Correspondencia Nombre: QUALCOMM Incorporated Ate: Departamento de Patentes Dirección: 5775 Morehouse Drive Dirección: San Diego, California 92121-1714		Número de Teléfono: (858) 651-4470 Facsimil: (858) 658-2502	
Páginas (Indique el número total de páginas del documento de cesión adjunto incluyendo cualquier anexo) Número Total de páginas: 4			
Número(s) de Solicitud(es) o Número(s) de Patente(s): Si este documento se presenta junto con una nueva solicitud, la fecha de suscripción de la solicitud es: _____			
Solicitud(es) de Patente Número(s): 1. 10/318,778 presentada 12/12/2002 2. 3. 4.		B. Patente(s) Número(s) 1. 2. 3. 4.	
Tratado de Cooperación de Patentes (PCT) (Diligencie <u>solo si</u> no se ha asignado un Número de Patente Estadounidense) 1. PCT/ 3. PCT/ 2. PCT/ 4. PCT/			
Número total de propiedades (Indique el número total de propiedades involucradas) Número total de propiedades: 1			
Valor de las Tasas Valor de las tasas para bienes relacionados(37CFR 3.41):\$40.00 Método de pago: ☐ Adjunto ☒ Cuenta de depósito (Diligenciar para pago por cuenta de depósito o si se pueden cobrar tasas adicionales a la cuenta. Se adjunta un duplicado de esta hoja para procesamiento de pago) Cuenta de Depósito Número: 17-0026 Autorización para cobrar tasas adicionales ☒ Si ☐ No			
Declaración y firma A mí leal saber y entender, la anterior información es correcta y fiel y las copias que se adjuntan son copias fieles del documento original. Se autorizan los cobros a la cuenta de depósito tal como se indica anteriormente. Fecha: Mayo 20 de 2003 Firma: Firma Ilegible 58,822 por Nombre: Sandra L. Godsey, Reg. No. 42,589 (858) 651-4517			
PARA USO OFICIAL EXCLUSIVO			

Página 1 de 1

05/27/2003 GTOM11 00000052 170026 10318778
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PATENTE
ROLLO: 014095 CUADRO: 0161

180 219

CESIÓN

A QUIÉN PUEDA INTERESAR:

Por la suma de Un Dólar y de otras contraprestaciones valiosas pagadas a nosotros, el recibo de las cuales por el presente reconocemos, se hace saber que nosotros, Jeffrey Alan Dyck, ciudadano de Canadá domiciliado en 4816 Mt. Harris Drive, San Diego, California 92117; Marcello Lloy, ciudadano de Canadá domiciliado en 11929 Miro Circle, San Diego, California 92131; y Nischal Abrol, ciudadano de India, domiciliado en 7260 Calle Cristobal, #41, San Diego, California 92126; hemos vendido, cedido y transferido y por estos presentes vendemos, cedemos, transferimos y traspasamos a QUALCOMM Inc rporated, una sociedad constituida de conformidad con las leyes de Delaware, domiciliada en 5775 Morehouse Drive, San Diego, California 92121-1714, a sus sucesores, representantes legales o cesi narios todo el derecho, título e interés en y a cierta invención relativa a SISTEMAS Y MÉTODOS PARA DETERMINACIÓN TEMPRANA DE SOPORTE DE RED PARA IP MÓVIL concebida por nosotros y a la solicitud de patente estadounidense presentada para la misma ante la Oficina de Marcas y Patentes de los Estados Unidos el 12/12/2002, a la cual le fue asignado el No. de Serie 10/318,778, y a todas la patentes originales y nuevas publicaciones que le sean otorgadas y a todas las divisiones, y continuaciones de la misma, incluyendo el objeto de cualquiera y de todas las reivindicaciones que se puedan obtener para cada una de dichas patentes y todos los derechos extranjeros a dicha invención y garantizamos que tenemos el pleno derecho para hacerlo y nos comprometemos a comunicarle a la mencionada sociedad o a sus representantes todos los hechos que sean de nuestro conocimiento respecto a dicha invención, cuando nos sea solicitado y a testificar en todos los procesos legales, firmar todos los documentos legales, tomar todos los jurament s legítimos y en general hacer todo aquello

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que sea posible para ayudar a dicha sociedad, sus sucesores, cesi narios y nominatarios a obtener y aplicar la debida protecci3n de patente a dicha invenci3n en todos los pa3ses.

1

PATENTE

ROLLO: 014095 CUADRO: 0162

Se le solicita al Comisionado de Marcas y Patentes que expida las Patentes que le puedan ser otorgadas a dicha invenci3n o a cualquier parte de la misma a nombre de dicha sociedad de conformidad con este Acuerdo.

San Diego, California hoy 15 de Mayo de 2003

Firma Ilegible
Jeffrey Alan Dyck

San Diego, California hoy 14 de Mayo de 2003

Firma Ilegible
Marcello Lioy

San Diego, California hoy 19 de Mayo de 2003

Firma Ilegible
Nischal Abrol

2

PATENTE

INSCRITO: 05/23/2003

ROLLO: 014095 CUADRO: 0163

APOSTILLA

(Convention de La Haye du 5 octobre 1961)

1. Pa3s: Estados Unidos de Am3rica

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2. ha sido firmado por L. Edelen

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3. actuando en calidad de Funcionario de Autenticaciones
4. lleva el sello/estampilla de Oficina de Marcas Y Patentes

Certificado

5. en Washington, D.C.
6. el doce de octubre de 2005
7. por *Funcionario Asistente de Autenticaciones, Departamento de Estado de los Estados Unidos*
8. No. 06000926-2
9. Sello/estampilla: 10... Firma:

Firma Ilegible

Patrick O. Hatchett

Es traducción fiel y completa de la cual se deja copia en esta oficina para su confrontación.

DVZ/ID-7185/WPCL002G/COLO 14439-841-004-9


DIEGO F. VARGAS Z.
TRADUCTOR E INTERPRETE OFICIAL
ESPAÑOL - INGLES - INGLES - ESPAÑOL
RES. 0001 DE ENERO 4 DE 1999
MINISTERIO DE JUSTICIA

19

COMO NOTARIO SEXTO DEL CIRCULO DE SANTA
BOGOTA, HAGO CONSTAR QUE LA(S) FIRM(A)S
Diego Lopez
Corporativo
CONCIDE(N) CON LA FIRMA REGISTRADA POR
EL (ELLOS) EN ESTA NOTARIA
SANTAFE DE BOGOTA. 21 OCT 2005



NO SE ASUME
RESPONSABILIDAD DEL TEXTO

2005 OCT 21 P 1:15

JEFE DE LEGALIZACIONES
SANTAFE DE BOGOTA D.C.

MINISTERIO DE RELACIONES
EXTERIORES

171499
Diego Lopez
CUYA FIRMA APARECE EN EL
DOCUMENTO DESEMPENA
LAS FUNCIONES INDICADAS

121

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Folio 232

2020
Bogotá D.C.,

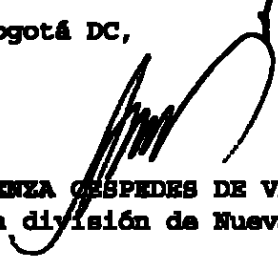
Doctor(a)
FERRERO EMILIO
Apoderado(a) y/o Representante de
QUALCOMM INCORPORATED

REFERENCIA	Radicación No.	05 67475
	Solicitud internacional	US2003/039587
	Fecha inicio fase nacional	12/07/2005
	Trámite	11
	Evento	379
	Actuación	416
	Oficio No.	2143
	Folios	1

Teniendo en cuenta que la solicitud de privilegio de patente que se tramita bajo el expediente indicado en la referencia, reúne los requisitos de forma establecidos en la Decisión 486 de la Comisión de la Comunidad Andina, el Tratado de Cooperación en Materia de Patentes (PCT), el Reglamento y la Circular Única de la Superintendencia de Industria y Comercio, se envía el extracto de la solicitud a la Oficina de Comunicaciones para efecto de su publicación en la Gaceta de Propiedad Industrial.

Cúmplase
Dado en Bogotá DC,

12 Dic. 2008


ALIX CARMONA OSPIDES DE VERGEL
Jefe de la división de Nuevas Creaciones

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