

ESTTA Tracking number: **ESTTA475344**

Filing date: **05/30/2012**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

Notice of Opposition

Notice is hereby given that the following party opposes registration of the indicated application.

Opposer Information

| | |
|---------------------------------------|---|
| Name | Altera Corporation |
| Granted to Date of previous extension | 05/30/2012 |
| Address | 101 Innovation Drive San Jose, CA 95134 UNITED STATES |

| | |
|----------------------|--|
| Attorney information | Rochelle D. Alpert Morgan, Lewis & Bockius LLP One Market, Spear Street Tower San Francisco, CA 94105 UNITED STATES ralpert@morganlewis.com, lweinberg@morganlewis.com, sfrademarks@morganlewis.com Phone:415-442-1326 |
|----------------------|--|

Applicant Information

| | | | |
|------------------------|---|------------------------|------------|
| Application No | 85371390 | Publication date | 01/31/2012 |
| Opposition Filing Date | 05/30/2012 | Opposition Period Ends | 05/30/2012 |
| Applicant | Skyworks Solutions, Inc. 20 Sylvan Road Woburn, MA 01801 UNITED STATES | | |

Goods/Services Affected by Opposition

| |
|--|
| Class 009. All goods and services in the class are opposed, namely: Computer hardware and semiconductor devices for use in radio frequency and baseband wireless communication equipment and instruction manuals provided therewith; computer software for use in operating wireless communications equipment and instructions manuals provided therewith |
|--|

Grounds for Opposition

| | |
|--------------------------------------|----------------------------|
| Priority and likelihood of confusion | Trademark Act section 2(d) |
|--------------------------------------|----------------------------|

Marks Cited by Opposer as Basis for Opposition

| | | | |
|-----------------------|------------|-----------------------|------------|
| U.S. Registration No. | 1792445 | Application Date | 11/03/1992 |
| Registration Date | 09/14/1993 | Foreign Priority Date | NONE |

| | |
|---------------------|--|
| Word Mark | ALTERA |
| Design Mark | |
| Description of Mark | NONE |
| Goods/Services | Class 009. First use: First Use: 1984/07/25 First Use In Commerce: 1984/07/25 semiconductor devices, computer programs for use in the design and application of semiconductor devices and instruction manuals sold therewith |

| | | | |
|-----------------------|--|-----------------------|------------|
| U.S. Registration No. | 2262184 | Application Date | 10/01/1997 |
| Registration Date | 07/20/1999 | Foreign Priority Date | NONE |
| Word Mark | ALTERA | | |
| Design Mark | | | |
| Description of Mark | NONE | | |
| Goods/Services | <p>Class 041. First use: First Use: 1988/07/00 First Use In Commerce: 1988/07/00 computer education training services, namely, conducting classes, workshops and seminars in the use of computer software, programmable logic devices and semiconductors</p> <p>Class 042. First use: First Use: 1988/07/00 First Use In Commerce: 1988/07/00 technical consultation and research in the field of configurable logic integrated circuits, programmable logic integrated circuits and associated computer-aided engineering logic development tools</p> | | |

| | | | |
|-----------------------|---|-----------------------|------------|
| U.S. Registration No. | 2720861 | Application Date | 03/15/2002 |
| Registration Date | 06/03/2003 | Foreign Priority Date | NONE |
| Word Mark | ALTERA | | |
| Design Mark |  | | |
| Description of Mark | NONE | | |
| Goods/Services | <p>Class 035. First use: First Use: 1989/12/31 First Use In Commerce: 1989/12/31 Online, telephone, catalog and retail [store] services in the field of umbrellas, flashlights, drink coolers, backpacks, golf balls, club bags, calculators, travel wallets, executive folders, briefcases, calendars, clocks, pens, CD cases, pocket knives, mugs, key holders, note paper, design software for integrated circuits and programmable logic devices, intellectual property cores, microprocessors, development boards, compilers, debuggers, cables, integrated circuits, programmable logic devices, and printed and interactive training courses</p> | | |

| | | | |
|-----------------------|---|-----------------------|------------|
| U.S. Registration No. | 2387765 | Application Date | 10/18/1999 |
| Registration Date | 09/19/2000 | Foreign Priority Date | NONE |
| Word Mark | ALTERA | | |
| Design Mark | ALTERA | | |
| Description of Mark | NONE | | |
| Goods/Services | Class 016. First use: First Use: 1984/07/25 First Use In Commerce: 1984/07/25 Printed matter, namely, newsletters and briefings featuring information on semiconductors, programmable logic devices, megafunctions, computer software and the application of these products, and user guides for semiconductors, programmable logic, megafunctions, and computer software | | |

| | | | |
|-----------------------------------|--|------------------|------|
| U.S. Application/Registration No. | NONE | Application Date | NONE |
| Registration Date | NONE | | |
| Word Mark | ALTERA | | |
| Goods/Services | As specified in the attached Notice of Opposition. | | |

| | |
|-------------|---|
| Attachments | 76382889#TMSN.gif (1 page)(bytes) 75826505#TMSN.gif (1 page)(bytes) Notice of Opposition and Exs A-B (Serial No 85371390).pdf (36 pages)(925256 bytes) |
|-------------|---|

Certificate of Service

The undersigned hereby certifies that a copy of this paper has been served upon all parties, at their address record by First Class Mail on this date.

| | |
|-----------|--------------------|
| Signature | /LEW/ |
| Name | Leigha E. Weinberg |
| Date | 05/30/2012 |

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD**

In the matter of application Serial No. 85/371,390
Filed November July 14, 2011
For the mark **INTERA**
Published in the OFFICIAL GAZETTE on January 31, 2012

ALTERA CORPORATION,

Opposer,

v.

SKYWORKS SOLUTIONS, INC.

Applicant.

Opposition No.:

NOTICE OF OPPOSITION

Altera Corporation, a Delaware corporation, having its principal place of business at 101 Innovation Drive, San Jose, California 95134 (“Altera”), believes that it will be damaged by the registration of the designation in the application shown in Serial No. 85/371,390, and hereby opposes same.

As grounds for the opposition, Altera alleges as follows:

1. Altera has long offered a range of products and services under its trade name and incontestable federally registered ALTERA® marks. Products and services offered under the Altera name and ALTERA® marks include, but are not limited to, software, hardware and semiconductor devices used for a wide array of purposes, including for wireless communications, as well as in connection with technical support, manuals, and education and training services.

2. Altera has used the Altera trade name since at least as early as July 25, 1984. Founded in 1983, Altera has been a publicly traded corporation, known as Altera, for nearly three decades.

3. Altera also has long owned and used the altera.com domain name.

4. Further, Altera promotes and sells its products and services under its ALTERA® marks and name to customers throughout the world.

5. Altera owns valid, subsisting, uncanceled and unrevoked incontestable federal trademark registrations for the ALTERA® mark, including:

(a) ALTERA® (U.S. Reg. No. 1,792,445) for “semiconductor devices, computer programs for use in the design and application of semiconductor devices and instruction manuals sold therewith,” in International Class 9;

(b) ALTERA® (U.S. Reg. No. 2,262,184) for: “computer education training services, namely, conducting classes, workshops and seminars in the use of computer software, programmable logic devices and semiconductors,” in International Class 41, and “technical consultation and research in the field of configurable logic integrated circuits, programmable logic integrated circuits and associated computer-aided engineering logic development tools,” in International Class 42;

(c) ALTERA® (U.S. Reg. No. 2,720,861) for “online, telephone, catalog and retail store services in the field of umbrellas, flashlights, drink coolers, backpacks, golf balls, club bags, calculators, travel wallets, executive folders, briefcases, calendars, clocks, pens, CD cases, pocket knives, mugs, keyholders, note paper, design software for integrated circuits and programmable logic devices, intellectual property cores, microprocessors, development boards, compilers, debuggers, cables, integrated circuits, programmable logic devices, and printed and interactive training courses,” in International Class 35; and

(d) ALTERA® (U.S. Reg. No. 2,387,765) for “printed matter, namely, newsletters and briefings featuring information on semiconductors, programmable logic devices, megafunctions, computer software and the application of these products, and user guides for semiconductors, programmable logic, megafunctions, and computer software,” in International Class 16. Attached hereto as Exhibit A are true and correct copies of printouts of the TARR and ASSIGN Status records for these ALTERA® marks printed from the site, www.uspto.gov on the date indicated on the attached printouts.

6. Over the years and continuing to the present, Altera has promoted its ALTERA® brand through promotional and advertising campaigns that have included billboards, print advertising, promotional items bearing the ALTERA® mark and name, and attendance at and participation in trade shows and conferences.

7. As a result of Altera’s exclusive, long-standing, continuous and widespread use and promotion of its ALTERA® marks, name and domain name, Altera’s ALTERA® marks, name, and domain name have become associated exclusively with Altera and its quality products and services.

8. By way of the opposed intent-to-use application, Applicant Skyworks Solutions, Inc. seeks to register the INTERA mark for “Computer hardware and *semiconductor devices* for use in radio frequency and baseband wireless communication equipment and instruction manuals provided therewith; computer software for use in operating wireless communications equipment and instruction manuals provided therewith” (emphasis added) in International Class 9.

9. The applied-for designation consists of the identical suffix “tera” combined with a two-letter prefix consisting beginning with a vowel, “in,” which on information and belief can be construed to mean “toward.” The two-letter “al” prefix in the ALTERA mark also begins with a vowel and can be construed to mean “toward.” Attached hereto as Exhibit B is a true and correct copy of a printout from the website <http://www.prefixsuffix.com/rootchart.php> as of the date indicated on the printout that defines “al” and “in” when used as a prefix as “toward.” For each of these reasons, the applied-for designation can be viewed as having the same meaning, sight and/or sound as Altera’s longstanding ALTERA® marks and names.

10. The opposed intent-to-use application was filed on July 14, 2011, well after Altera filed and obtained United States trademark registrations for its ALTERA® marks, and well after Altera first commenced use of its ALTERA® marks, name and domain name.

**FIRST GROUND FOR OPPOSITION
(Likelihood of Confusion)**

11. Altera realleges the allegations contained in paragraphs 1 through 10 of this Notice of Opposition as if fully set out herein.

12. The applied-for INTERA designation is virtually identical in sight, sound and/or meaning to Altera's incontestable ALTERA® marks and names. The applied-for designation consists of the identical suffix TERA combined with a prefix consisting of two letters the first of which is a vowel, just as the ALTERA® marks and name. Further, the applied for designation can be construed to have the identical commercial impression as the long established ALTERA® marks and name.

13. On information and belief, Altera alleges that the goods for which Applicant seeks to register the opposed ALTERA designation are overlapping with, related to and/or complementary to, Altera's products and services. Moreover, on information and belief, Altera alleges that Applicant intends to direct its products under the applied-for INTERA designation to the same and/or overlapping consumers to whom Altera promotes and offers its products and services bearing its ALTERA® marks. Further, on information and belief, Altera alleges that Applicant and Altera use or will use the same or overlapping channels of trade to target the same or overlapping prospective customers.

14. Since Altera's ALTERA® marks and name are virtually identical in sight, sound and/or meaning to the applied-for designation and because the goods identified in the opposed application and the apparent channels of trade for those goods overlap with those of Altera, Applicant's application for the INTERA designation is likely to cause confusion, or to cause mistake, or to deceive or disparage by falsely suggesting a connection with Altera, when no such connection exists. As a result, Altera will be damaged by the registration of the designation sought to be protected in Applicant's application and requests that the opposed application be denied.

EXHIBIT A
to Notice of Opposition (Serial No. 85/371,390)

Thank you for your request. Here are the latest results from the TARR web server.

This page was generated by the TARR system on 2012-05-30 16:09:38 ET

Serial Number: 74328022 Assignment Information Trademark Document Retrieval

Registration Number: 1792445

Mark (words only): ALTERA

Standard Character claim: No

Current Status: The registration has been renewed.

Date of Status: 2003-02-13

Filing Date: 1992-11-03

Transformed into a National Application: No

Registration Date: 1993-09-14

Register: Principal

Law Office Assigned: LAW OFFICE 13

If you are the applicant or applicant's attorney and have questions about this file, please contact the Trademark Assistance Center at TrademarkAssistanceCenter@uspto.gov

Current Location: 40S -Scanning On Demand

Date In Location: 2007-09-19

LAST APPLICANT(S)/OWNER(S) OF RECORD

1. ALTERA CORPORATION

Address:

ALTERA CORPORATION
101 INNOVATION DRIVE
SAN JOSE, CA 95134
United States

Legal Entity Type: Corporation

State or Country of Incorporation: Delaware

GOODS AND/OR SERVICES

International Class: 009

Class Status: Active

semiconductor devices, computer programs for use in the design and application of semiconductor devices and instruction manuals sold therewith

Basis: 1(a)

First Use Date: 1984-07-25

First Use in Commerce Date: 1984-07-25

ADDITIONAL INFORMATION

(NOT AVAILABLE)

MADRID PROTOCOL INFORMATION

(NOT AVAILABLE)

PROSECUTION HISTORY

NOTE: To view any document referenced below, click on the link to "Trademark Document Retrieval" shown near the top of this page.

2009-04-21 - Review Of Correspondence Complete

2007-09-19 - Case File In TICRS

2003-05-06 - TEAS Change Of Correspondence Received

2003-02-13 - First renewal 10 year

2003-02-13 - Section 8 (10-year) accepted/ Section 9 granted

2002-11-04 - Combined Section 8 (10-year)/Section 9 filed

2002-11-04 - PAPER RECEIVED

2000-10-11 - Section 8 (6-year) accepted & Section 15 acknowledged

1999-05-21 - Section 8 (6-year) and Section 15 Filed

1993-09-14 - Registered - Principal Register

1993-06-22 - Published for opposition

1993-05-21 - Notice of publication

1993-03-31 - Approved for Pub - Principal Register (Initial exam)

1993-03-25 - Non-final action mailed

1993-01-28 - Assigned To Examiner

ATTORNEY/CORRESPONDENT INFORMATION

Attorney of Record

ROCHELLE D. ALPERT

Correspondent

Rochelle D. Alpert

Morgan, Lewis & Bockius LLP

One Market, Spear Street Tower

San Francisco CA 94105

Phone Number: 415-442-1326

Fax Number: 415-442-1010

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**Assignments on the Web > Trademark Query****Trademark Assignment Abstract of Title****Total Assignments: 1****Serial #:** [74328022](#)**Filing Dt:** 11/03/1992**Reg #:** [1792445](#)**Reg. Dt:** 09/14/1993**Registrant:** Altera Corporation**Mark:** ALTERA**Assignment: 1****Reel/Frame:** [1659/0643](#)**Received:** 12/04/1997**Recorded:** 11/26/1997**Pages:** 3**Conveyance:** MERGER**Assignor:** [ALTERA CORPORATION](#)**Exec Dt:** 06/19/1997**Entity Type:** CORPORATION**Citizenship:** CALIFORNIA**Entity Type:** CORPORATION**Citizenship:** DELAWARE**Assignee:** [ALTERA CORPORATION](#)

101 INNOVATION DRIVE
SAN JOSE, CALIFORNIA 95134

Correspondent: MORRISON & FOERSTER LLP

JENNIFER L. TAYLOR
125 MARKET STREET
SAN FRANCISCO, CA 94105-2482

Search Results as of: 05/30/2012 04:09 PM

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Web interface last modified: Jan 26, 2012 v.2.3.1

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Serial Number: 75367375 Assignment Information Trademark Document Retrieval

Registration Number: 2262184

Mark (words only): ALTERA

Standard Character claim: No

Current Status: The registration has been renewed.

Date of Status: 2008-08-22

Filing Date: 1997-10-01

Transformed into a National Application: No

Registration Date: 1999-07-20

Register: Principal

Law Office Assigned: LAW OFFICE 102

If you are the applicant or applicant's attorney and have questions about this file, please contact the Trademark Assistance Center at TrademarkAssistanceCenter@uspto.gov

Current Location: 830 -Post Registration

Date In Location: 2008-08-22

LAST APPLICANT(S)/OWNER(S) OF RECORD

1. Altera Corporation

Address:

Altera Corporation
101 Innovation Drive
San Jose, CA 95134
United States

Legal Entity Type: Corporation

State or Country of Incorporation: Delaware

GOODS AND/OR SERVICES

International Class: 041

Class Status: Active

computer education training services, namely, conducting classes, workshops and seminars in the use of computer software, programmable logic devices and semiconductors

Basis: 1(a)

First Use Date: 1988-07-00

First Use in Commerce Date: 1988-07-00

International Class: 042

Class Status: Active

technical consultation and research in the field of configurable logic integrated circuits, programmable logic integrated circuits and associated computer-aided engineering logic development tools

Basis: 1(a)

First Use Date: 1988-07-00

First Use in Commerce Date: 1988-07-00

ADDITIONAL INFORMATION

Prior Registration Number(s):

1792445

1793488

MADRID PROTOCOL INFORMATION

(NOT AVAILABLE)

PROSECUTION HISTORY

NOTE: To view any document referenced below, click on the link to "Trademark Document Retrieval" shown near the top of this page.

2008-08-22 - First renewal 10 year

2008-08-22 - Section 8 (10-year) accepted/ Section 9 granted

2008-08-19 - Assigned To Paralegal

2008-08-18 - Assigned To Paralegal

2008-08-11 - TEAS Section 8 & 9 Received

2005-04-13 - Section 8 (6-year) accepted & Section 15 acknowledged

2005-03-22 - Section 8 (6-year) and Section 15 Filed

2005-03-22 - TEAS Section 8 & 15 Received

2003-05-06 - TEAS Change Of Correspondence Received

1999-07-20 - Registered - Principal Register

1999-04-27 - Published for opposition

1999-03-26 - Notice of publication

1999-02-02 - Approved for Pub - Principal Register (Initial exam)

1999-01-13 - Communication received from applicant

1998-07-13 - Non-final action mailed

1998-07-08 - Assigned To Examiner

1998-06-30 - Assigned To Examiner

ATTORNEY/CORRESPONDENT INFORMATION

Attorney of Record

ROCHELLE D ALPERT

Correspondent

ROCHELLE D ALPERT

Morgan, Lewis & Bockius LLP

One Market, Spear Street Tower

San Francisco CA 94105

Phone Number: 415-442-1326

Fax Number: 415-442-1010



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For Serial Number: 75367375

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Web interface last modified: Jan 26, 2012 v.2.3.1

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Serial Number: 76382889 [Assignment Information](#) [Trademark Document Retrieval](#)

Registration Number: 2720861

Mark (words only): ALTERA

Standard Character claim: No

Current Status: A Sections 8 and 15 combined declaration has been accepted and acknowledged.

Date of Status: 2008-12-07

Filing Date: 2002-03-15

Transformed into a National Application: No

Registration Date: 2003-06-03

Register: Principal

Law Office Assigned: LAW OFFICE 110

If you are the applicant or applicant's attorney and have questions about this file, please contact the Trademark Assistance Center at TrademarkAssistanceCenter@uspto.gov

Current Location: 830 -Post Registration

Date In Location: 2008-12-07

LAST APPLICANT(S)/OWNER(S) OF RECORD

1. Altera Corporation

Address:

Altera Corporation
101 Innovation Drive
San Jose, CA 95134
United States

Legal Entity Type: Corporation

State or Country of Incorporation: Delaware

GOODS AND/OR SERVICES

International Class: 035

Class Status: Active

Online, telephone, catalog and retail services in the field of umbrellas, flashlights, drink coolers, backpacks, golf balls, club bags, calculators, travel wallets, executive folders, briefcases,

calendars, clocks, pens, CD cases, pocket knives, mugs, key holders, note paper, design software for integrated circuits and programmable logic devices, intellectual property cores, microprocessors, development boards, compilers, debuggers, cables, integrated circuits, programmable logic devices, and printed and interactive training courses

Basis: 1(a)

First Use Date: 1989-12-31

First Use in Commerce Date: 1989-12-31

ADDITIONAL INFORMATION

Prior Registration Number(s):

1792445

1793488

2262184

2387765

2414291

2438941

MADRID PROTOCOL INFORMATION

(NOT AVAILABLE)

PROSECUTION HISTORY

NOTE: To view any document referenced below, click on the link to "Trademark Document Retrieval" shown near the top of this page.

2008-12-07 - Section 8 (6-year) accepted & Section 15 acknowledged

2008-11-10 - TEAS Section 8 & 15 Received

2008-07-29 - Case File In TICRS

2003-06-03 - Registered - Principal Register

2003-05-06 - TEAS Change Of Correspondence Received

2003-03-11 - Published for opposition

2003-02-19 - Notice of publication

2003-01-13 - Approved for Pub - Principal Register (Initial exam)

2002-12-23 - Communication received from applicant

2002-12-23 - PAPER RECEIVED

2002-10-07 - Non-final action mailed

2002-08-19 - Communication received from applicant

2002-08-19 - PAPER RECEIVED

2002-08-02 - Non-final action mailed

2002-07-10 - Assigned To Examiner

2002-07-10 - Assigned To Examiner

ATTORNEY/CORRESPONDENT INFORMATION

Attorney of Record

Rochelle D. Alpert

Correspondent

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For Serial Number: 76382889

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Web interface last modified: Jan 26, 2012 v.2.3.1

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Serial Number: 75826505 Assignment Information Trademark Document Retrieval

Registration Number: 2387765

Mark (words only): ALTERA

Standard Character claim: No

Current Status: The registration has been renewed.

Date of Status: 2009-10-14

Filing Date: 1999-10-18

Transformed into a National Application: No

Registration Date: 2000-09-19

Register: Principal

Law Office Assigned: LAW OFFICE 106

If you are the applicant or applicant's attorney and have questions about this file, please contact the Trademark Assistance Center at TrademarkAssistanceCenter@uspto.gov

Current Location: (NOT AVAILABLE)

Date In Location: 2009-10-14

LAST APPLICANT(S)/OWNER(S) OF RECORD

1. Altera Corporation

Address:

Altera Corporation
101 Innovation Drive
San Jose, CA 95134
United States

Legal Entity Type: Corporation

State or Country of Incorporation: Delaware

GOODS AND/OR SERVICES

International Class: 016

Class Status: Active

Printed matter, namely, newsletters and briefings featuring information on semiconductors, programmable logic devices, megafunctions, computer software and the application of these products, and user guides for semiconductors, programmable logic, megafunctions, and

computer software

Basis: 1(a)

First Use Date: 1984-07-25

First Use in Commerce Date: 1984-07-25

ADDITIONAL INFORMATION

Prior Registration Number(s):

1792445

1793488

2262184

MADRID PROTOCOL INFORMATION

(NOT AVAILABLE)

PROSECUTION HISTORY

NOTE: To view any document referenced below, click on the link to "Trademark Document Retrieval" shown near the top of this page.

2009-10-14 - First renewal 10 year

2009-10-14 - Section 8 (10-year) accepted/ Section 9 granted

2009-10-06 - TEAS Section 8 & 9 Received

2006-02-02 - Case File In TICRS

2005-12-29 - Section 8 (6-year) accepted & Section 15 acknowledged

2005-12-21 - Assigned To Paralegal

2005-09-27 - Section 8 (6-year) and Section 15 Filed

2005-09-27 - TEAS Section 8 & 15 Received

2003-05-06 - TEAS Change Of Correspondence Received

2000-09-19 - Registered - Principal Register

2000-06-27 - Published for opposition

2000-05-26 - Notice of publication

2000-04-20 - Approved for Pub - Principal Register (Initial exam)

2000-04-10 - Examiner's amendment mailed

2000-03-30 - Assigned To Examiner

ATTORNEY/CORRESPONDENT INFORMATION

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Phone Number: 415-442-1326

Fax Number: 415-442-1001



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For Serial Number: 75826505

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Web interface last modified: Jan 26, 2012 v.2.3.1

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EXHIBIT B
to Notice of Opposition (Serial No. 85/371,390)

DB2/23207496.1

Altera Corporation v. Skyworks Solutions, Inc.

Submitted by: **Altera Corporation (Opposer)**

Serial No.: 85/371,390

PrefixSuffix.com

English Language Roots Reference

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- overview
- more about root words
- more about prefixes & suffixes
- more about syllables
- etymology
- research -
- root chart
- root search
- forming new words
- teaching & games -
- "rooty" challenge game
- "meany" challenge game
- references +
- other sites +
- prefixsuffix.com +

English Language Roots Quick Chart

Below you will see a chart of English language word roots that are common prefixes and suffixes to base words. (This list is similar to that which appeared previously on this site.)

This list is a small portion of our 2,000 word root database which you can search using our [root search engine](#).

Play and Learn!

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mat.usc.edu/TESOL

Exercise Your Brain

Games You Didn't Know Existed to Fight Brain Decline and Aging.
www.lumosity.com

Definition Dictionary

Find Words, Definitions, Spellings & More for Free. Get ReferenceBoss!
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| Root, Prefix or Suffix | Meaning | Examples |
|---------------------------------------|--|--|
| a, ac, ad, af, ag, al, an, ap, as, at | to, toward, near, in addition to, by | aside, accompany, adjust, aggression, allocate, annihilate, affix, associate, attend, adverb |
| a-, an- | not, without | apolitical, atheist, anarchy, anonymous, apathy, aphasia, anemia |
| ab, abs | away from, off | absolve, abrupt, absent |
| -able, -ible | Adjective: worth, ability | solvable, incredible |
| acer, acid, acri | bitter, sour, sharp | acerbic, acidity, acrid, acrimony |
| act, ag | do, act, drive | active, react, agent, active, agitate |
| acu | sharp | acute, acupuncture, accurate |
| -acy, -cy | Noun: state or quality | privacy, infancy, adequacy, intimacy, supremacy |
| -ade | act, product, sweet drink | blockade, lemonade |
| aer, aero | air, atmosphere, aviation | aerial, aerosol, aerodrome |
| ag, agi, ig, act | do, move, go | agent, agenda, agitate, navigate, ambiguous, action |
| -age | Noun: activity, or result of action | courage, suffrage, shrinkage, tonnage |
| agri, agro | pertaining to fields or soil | agriculture, agroindustry |
| -al | Noun: action, result of action | referral, disavowal, disposal, festival |
| -al, -ial, -ical | Adjective: quality, relation | structural, territorial, categorical |
| alb, albo | white, without pigment | albino, albite |
| ali, allo, alter | other | alias, alibi, alien, alloy, alter, alter ego, altruism |
| alt | high, deep | altimeter, altitude |
| am, ami, amor | love, like, liking | amorous, amiable, amicable, enamoured |
| ambi | both | ambidextrous |
| ambul | to walk | ambulatory, amble, ambulance, somnambulist |
| -an | Noun: person | artisan, guardian, historian, magician |
| ana, ano | up, back, again, anew | anode, anagram, anagenetic |
| -ance, -ence | Noun: action, state, quality or process | resistance, independence, extravagance, fraudulence |
| -ancy, -ency | Noun: state, quality or capacity | vacancy, agency, truancy, latency |
| andr, andro | male, characteristics of men | androcentric, android |
| ang | angular | angle |
| anim | mind, life, spirit, anger | animal, animate, animosity |
| ann, annu, enni | yearly | annual, annual, annuity, anniversary, perennial |
| -ant, -ent | Noun: an agent, something that performs the action | disinfectant, dependent, fragrant |
| -ant, -ent, -ient | Adjective: kind of agent, indication | important, dependent, convenient |

| | | |
|---|---|---|
| ante | before | anterior, anteroom, antebellum, antedate, antecedent antediluvian |
| anthrop | man | anthropology, misanthrope, philanthropy |
| anti, ant | against, opposite | antisocial, antiseptic, antithesis, antibody, antinomies, antifreeze, antipathy |
| anti, antico | old | antique, antiquated, antiquity |
| apo, ap, aph | away from, detached, formed | apology, apocalypse, aphagia |
| aqu | water | aqueous |
| -ar, -ary | Adjective: resembling, related to | spectacular, unitary |
| arch | chief, first, rule | archangel, architect, archaic, monarchy, matriarchy, patriarchy, Archeozoic era |
| -ard, -art | Noun: characterized | braggart, drunkard, wizard |
| aster, astr | star | aster, asterisk, asteroid, astronomy, astronaut |
| -ate | Noun: state, office, fuction | candidate, electorate, delegate |
| -ate | Verb: cause to be | graduate, ameliorate, amputate, colligate |
| -ate | Adjective: kind of state | inviolate |
| -ation | Noun: action, resulting state | specialization, aggravation, alternation |
| auc, aug, aut | to originate, to increase | augment , author, augment, auction |
| aud, audi, aur, aus | to hear, listen | audience, audio, audible, auditorium, audiovisual, audition, auricular, auscultate |
| aug, auc | increase | augur, augment, auction |
| aut, auto | self | automobile, automatic, automotive, autograph, autonomous, autoimmune |
| bar | weight, pressure | barometer |
| be | on, around, over, about, excessively, make, cause, name, affect | berate, bedeck, bespeak, belittle, beleaguer |
| belli | war | rebellion, belligerent, casus belli, bellicose |
| bene | good, well, gentle | benefactor, beneficial, benevolent, benediction, beneficiary, benefit |
| bi, bine | two | biped, bifurcate, biweekly, bivalve, biannual |
| bibl, bibli, biblio | book | bibliophile, bibliography, Bible |
| bio, bi | life | biography, biology, biometrics, biome, biosphere |
| brev | short | abbreviate, brevity, brief |
| cad, cap, cas, ceiv, cept, capt, cid, cip | to take, to seize, to hold | receive, deceive, capable, capacious, captive, accident, capture, occasion, concept, intercept, forceps, except, reciprocate |
| cad, cas | to fall | cadaver, cadence, cascade |
| -cade | procession | motorcade |
| calor | heat | calorie, caloric, calorimeter |
| capit, capt | head | decapitate, capital, captain, caption |
| carn | flesh | carnivorous, incarnate, reincarnation, carnal |
| cat, cata, cath | down, with | catalogue, category, catheter |
| caus, caut | burn, heat | caustic, cauldron, cauterize |
| cause, cuse, cus | cause, motive | because, excuse, accusation |
| ceas, ced, cede, ceed, cess | to go, to yield, move, go, surrender | succeed, proceed, precede, recede, secession, exceed, succession |
| cent | hundred | centennial, century, centipede |
| centr, centri | center | eccentricity, centrifugal, concentric, eccentric |
| chrom | color | chrome, chromosome, polychrome, chromatic |
| chron | time | chronology, chronic, chronicle, chronometer, anachronism, synchronize |
| cide, cis, cise | to kill, to cut, cut down | fratricide, homicide, incision, incision, circumcision, scissors |
| circum | around | circumnavigate, circumflex, circumstance, circumcision, circumference, circumorbital, circumlocution, circumvent, circumscribe, circulatory |
| cit | call, start | incite, citation, cite |
| civ | citizen | civic, civil, civilian, civilization |
| clam, claim | cry out | exclamation, clamor, proclamation, reclamation, acclaim |
| clin | lean, bend | decline, aclinik, inclination |
| | | include, exclude, clause, claustrophobia, |

| | | |
|-----------------------------------|--|--|
| clud, clus claus | to close, shut | enclose, exclusive, reclusive, conclude |
| co, cog, col, coll, con, com, cor | with, together | cohesiveness, cognate, collaborate, convene, commitment, compress, contemporary, converge, compact, confluence, convenient, concatenate, conjoin, combine, correct |
| cogn, gnos | to know | recognize, cognizant, diagnose, agnostic, incognito, prognosis |
| com, con | fully | complete, compel, conscious, condense, confess, confirm |
| contr, contra, counter | against, opposite | contradict, counteract, contravene, contrary, counterspy, contrapuntal |
| cord, cor, cardi | heart | cordial, concord, discord, courage, encourage |
| corp | body | corporation, corporal punishment, corpse, corpulent, corpus luteum |
| cort | correct | escort, cortage |
| cosm | universe, world | cosmos, microcosm, cosmopolitan, cosmonaut |
| cour, cur, curr, curs | run, course | occur, excursion, discourse, courier, course |
| crat, cracy | rule | autocrat, aristocrat, theocracy, technocracy |
| cre, cresc, cret, crease | grow | create, crescent, accretion, increase |
| crea | create | creature, recreation, creation |
| cred | believe | creed, credo, credence, credit, credulous, incredulous, incredible |
| cresc, cret, crease, cru | rise, grow | crescendo, concrete, increase, decrease, accrue |
| crit | separate, choose | critical, criterion, hypocrite |
| cur, curs | run | current, concurrent, concur, incur, recur, occur, courier, precursor, cursive |
| cura | care | curator, curative, manicure |
| cycl, cyclo | wheel, circle, circular | Cyclops, unicycle, bicycle, cyclone, cyclic |
| de- | from, down, away, to do the opposite, reverse, against | detach, deploy, derange, decrease, deodorize, devoid, deflate, degenerate |
| dec, deca | ten, ten times | decimal, decade, decalogue, decimate, decathlon |
| dec, dign | suitable | decent, decorate, dignity |
| dei, div | God | divinity, divine, deity, divination, deify |
| dem, demo | people, populace, population | democracy, demography, demagogue, epidemic |
| dent, dont | tooth | dental, denture, orthodontist, periodontal |
| derm | skin, covering | hypodermic, dermatology, epidermis, taxidermy |
| di-, dy- | two, twice, double | divide, diverge, diglycerides |
| dia | through, across, between | diameter, diagonal, dialogue, dialect, dialectic, diagnosis, diachronic |
| dic, dict, dit | say, speak | dictation, dictionary, dictate, dictator, Dictaphone, edict, predict, verdict, contradict, benediction |
| dis, dif | not, opposite of, reverse, separate, deprive of, away | dismiss, differ, disallow, disperse, dissuade, divide, disconnect, disproportion, disrespect, distemper, disarray |
| dit | give | credit, audit |
| doc, doct | teach, prove | docile, doctor, doctrine, document, dogma, indoctrinate |
| domin | master, that which is under control | dominate, dominion, predominant, domain |
| don | give | donate, condone |
| dorm | sleep | dormant, dormitory |
| dox | thought, opinion, praise | orthodox, heterodox, paradox, doxology |
| -drome | run, step | syndrome, aerodrome, velodrome |
| duc, duct | to lead, pull | produce, abduct, product, transducer, viaduct, aqueduct, induct, deduct, reduce, induce |
| dura | hard, lasting | durable, duration, endure |
| dynam | power | dynamo, dynamic, dynamite, hydrodynamics |
| dys- | bad, abnormal, difficult, impaired, unfavorable | dysfunctional, dyslexia, dyspathy |
| e- | not, missing, out, fully, away, computer network related | emit, embed, eternal, ether, erase, email, e-tailer |
| ec- | out of, outside | echo, eclipse, eclectic, ecesis, ecstasy, exzema |

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|-------------------------------------|--|--|
| eco- | household, environment, relating to ecology or economy | ecology, economize, ecospheres, ecomanagement |
| ecto- | outside, external | ectomorph, ectoderm, ectoplasm |
| -ed | Verb: past tense | dressed, faded, patted, closed, introduced |
| -ed | Adjective: having the quality or characteristics of | winged, moneyed, dogged, tiered |
| -en | Verb: to cause to become | lengthen, moisten, sharpen |
| -en | Adjective: material | golden, woolen, silken |
| en-, em- | put into, make, provide with, surround with | enamor, embolden, enslave, empower, entangle |
| -ence, -ency | Noun: action or process, quality or state | reference, emergency, dependence, eminence, latency |
| end- | inside, within | endorse, endocardial, endergonic, endoskeleton, endoscope, endogenous |
| epi- | upon, close to, over, after, altered | epicenter, epicarp, epilogue, epigone, epidiorite |
| equi- | equal | equidistant, equilateral, equilibrium, equinox, equation, equator |
| -er, -ier | Adjective: comparative | better, brighter, sooner, hotter, happier |
| -er, -or | Noun: person or thing that does something | flyer, reporter, player, member, fryer, collector, concentrator |
| -er, -or | Verb: action | ponder, dishonor, clamor |
| erg | work, effect | energy, erg, allergy, ergometer, ergograph, ergophobia |
| -ery | collective qualities, art, practice, trade, collection, state, condition | snobbery, bakery, geenery, gallery, slavery |
| -es, -ies | Noun: plural of most nouns ending in -ch, -s, -sh, -o and -z and some in -f and -y | passes, glasses, ladies, heroes |
| -es, -ies | Verb: third person singular present indicative of verbs that end in -ch, -s, -sh, - and some in -y | blessees, hushes, fizzes, defies |
| -ess | female | actress, goddess, poetess |
| -est, -iest | Adjective or Adverb: superlative | latest, strongest, luckiest, lyingest |
| ev-, et- | time, age | medieval, eternal |
| ex- | out of, away from, lacking, former | exit, exhale, exclusive, exceed, explosion, ex-mayor |
| exter-, extra-, extro- | outside of, beyond | external, extrinsic, extraordinary, extrapolate, extraneous, extrovert |
| fa, fess | speak | fable, fabulous, fame, famous, confess, profess |
| fac, fact, fec, fect, fic, fas, fea | do, make | difficult, fashion, feasible, feature, factory, fact, effect, manufacture, amplification, confection |
| fall, fals | deceive | fallacy, falsify, fallacious |
| femto | quadrillionth | femtosecond |
| fer | bear, carry | ferry, coniferous, fertile, defer, infer, refer, transfer |
| fic, feign, fain, fit, feat | shape, make, fashion | fiction, faint, feign |
| fid | belief, faith | confide, diffident, fidelity |
| fid, fide, feder | faith, trust | confidante, fidelity, confident, infidelity, infidel, federal, confederacy, semper fi |
| fig | shape, form | figurem, effigy, figure, figment |
| fila, fili | thread | filigree, filament, filter, filet, filibuster |
| fin | end, ended, finished | final, finite, finish, confine, fine, refine, define, finale |
| fix | repair, attach | fix, fixation, fixture, affix, prefix, suffix |
| flex, flect | bend | flex, reflex, flexible, flexor, inflexibility, reflect, deflect, circumflex |
| flict | strike | affliction, conflict, inflict |
| flu, fluc, fluv, flux | flow | influence, fluid, flue, flush, fluently, fluctuate, reflux, influx |
| -fold | Adverb: in a manner of, marked by | fourfold |
| for, fore | before | forecast, fortune, foresee |
| forc, fort | strength, strong | effort, fort, forte, fortifiable, fortify, forte, fortitude |

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|--------------------|--|---|
| form | shape, resemble | form, format, conform, formulate, perform, formal, formula |
| fract, frag, frai | break | fracture, infraction, fragile, fraction, refract, frail |
| fuge | flee | subterfuge, refuge, centrifuge |
| -ful | Noun: an amount or quantity that fills | mouthful |
| -ful | Adjective: having, giving, marked by | fanciful |
| fuse | pour | confuse, transfuse |
| -fy | make, form into | falsify, dandify |
| gam | marriage | bigamy, monogamy, polygamy |
| gastr, gastro | stomach | gastric, gastronomic, gastritis, gastropod |
| gen | kind | generous |
| gen | birth, race, produce | genesis, genetics, eugenics, genealogy, generate, genetic, antigen, pathogen |
| geo | earth | geometry, geography, geocentric, geology |
| germ | vital part | germination, germ, germane |
| gest | carry, bear | congest, gestation |
| giga | billion | gigabyte, gigaflop |
| gin | careful | gingerly |
| gloss, glot | tongue | glossary, polyglot, epiglottis |
| glu, glo | lump, bond, glue | glue, agglutinate, conglomerate |
| gor | to gather, to bring together | category, categorize |
| grad, gress, gree | to gather, to bring together, step, go | grade, degree, progress, gradual, graduate, egress |
| graph, gram, graf | write, written, draw | graph, graphic, autograph, photography, graphite, telegram, polygraph, grammar, biography, lithograph, graphic |
| grat | pleasing | congratulate, gratuity, grateful, ingrate |
| grav | heavy, weighty | grave, gravity, aggravate, gravitate |
| greg | herd | gregarious, congregation, segregate, gregarian |
| hale, heal | make whole, sound | inhale, exhale, heal, healthy, healthiness |
| helio | sun | heliograph, heliotrope, heliocentric |
| hema, hemo | blood | hemorrhage, hemoglobin, hemophilia, hemostat |
| her, here, hes | stick | adhere, cohere, cohesion, inherent, hereditary, hesitate |
| hetero | other, different | heterodox, heterogeneous, heterosexual, heterodyne |
| hex, ses, sex | six | hexagon, hexameter, sestet, sextuplets |
| homo | same | homogenize, homosexual, homonym, homophone |
| hum, human | earth, ground, man | humus, exhume, humane |
| hydr, hydra, hydro | water | dehydrate, hydrant, hydraulic, hydraulics, hydrogen, hydrophobia |
| hyper | over, above | hyperactive, hypertensive, hyperbolic, hypersensitive, hyperventilate, hyperkinetic |
| hypn | sleep | hypnosis, hypnotherapy |
| -ia | Noun: names, diseases | phobia |
| -ian, an | Noun: related to, one that is | pedestrian, human |
| -iatry | Noun: art of healing | psychiatry |
| -ic | Adjective: quality, relation | generic |
| -ic, ics | Noun: related to the arts and sciences | arithmetic, economics |
| -ice | Noun: act | malice |
| -ify | Verb: cause | specify |
| ignis | fire | ignite, igneous, ignition |
| -ile | Adjective: having the qualities of | projectile |
| in, im | into, on, near, towards | instead, import |
| in, im, il, ir | not | illegible, irresolute, inaction, inviolate, innocuous, intractable, innocent, impregnable, impossible, imposter |
| infra | beneath | infrared, infrastructure |
| -ing | Noun: material made for, activity, result of an activity | flooring, swimming, building |
| -ing | Verb: present participle | depicting |

| | | |
|--------------------------|--|---|
| -ing | Adjective: activity | cohering |
| inter | between, among | international, intercept, interject, intermission, internal, intermittent, |
| intra | within, during, between layers, underneath | intramural, intranet, intranatal |
| intro | into, within, inward | interoffice, introvert, introspection, introduce |
| -ion | Noun: condition or action | abduction |
| -ish | Adjective: having the character of | newish |
| -ism | Noun: doctrine, belief, action or conduct | formalism |
| -ist | Noun: person or member | podiatrist |
| -ite | Noun: state or quality | graphite |
| -ity, ty | Noun: state or quality | lucidity, novelty |
| -ive | Noun: condition | native |
| -ive, -ative, -itive | Adjective: having the quality of | festive, cooperative, sensitive |
| -ize | Verb: cause | fantasize |
| jac, ject | throw | reject, eject, project, trajectory, interject, dejected, inject, ejaculate, adjacent |
| join, junct | join | adjoining, enjoin, juncture, conjunction, injunction, conjunction |
| judice | judge | prejudice |
| jug, junct, just | to join | junction, adjust, conjugal |
| juven | young | juvenile, rejuvenate |
| labor | work | laborious, belabor |
| lau, lav, lot, lut | wash | launder, lavatory, lotion, ablution, dilute |
| lect, leg, lig | choose, gather, select, read | collect, legible, eligible |
| leg | law | legal, legislate, legislature, legitimize |
| -less | Adjective: without, missing | motiveless |
| levi | light | alleviate, levitate, levity |
| lex, leag, leg | law | legal, college, league |
| liber, liver | free | liberty, liberal, liberalize, deliverance |
| lide | strike | collide, nuclide |
| liter | letters | literary, literature, literal, alliteration, obliterate |
| loc, loco | place, area | location, locally, locality, allocate, locomotion |
| log, logo, ology | word, study, say, speech, reason, study | catalog, prologue, dialogue, zoology, logo |
| loqu, locut | talk, speak | eloquent, loquacious, colloquial, circumlocution |
| luc, lum, lun, lus, lust | light | translucent, luminary, luster, luna, illuminate, illustrate |
| lude | play | prelude |
| -ly | Adverb: in the manner of | fluently |
| macr-, macer | lean | emaciated, meager |
| magn | great | magnify, magnificent, magnanimous, magnate, magnitude, magnum |
| main | strength, foremost | mainstream, mainsail, domain, remain |
| mal | bad, badly | malformation, maladjusted, dismal, malady, malcontent, malfunction, malfeasance, maleficent |
| man, manu | hand, make, do | manual, manage, manufacture, manacle, manicure, manifest, maneuver, emancipate, management |
| mand | command | mandatory, remand, mandate |
| mania | madness | mania, maniac, kleptomania, pyromania |
| mar, mari, mer | sea, pool | marine, marsh, maritime, mermaid |
| matri | mother | matrimony, maternal, matriarchate, matron |
| medi | half, middle, between, halfway | mediate, medieval, Mediterranean, mediocre, medium |
| mega | great, million | megaphone, megaton, megaflop, megalomaniac, megabyte, megalopolis |
| mem | recall, remember | memo, commemoration, memento, memoir, memorable |
| ment | mind | mental, mention |
| -ment | Noun: condition or result | document |
| meso | middle | mesomorph, mesoamerica, mesosphere |

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|--------------------------|---|--|
| meta | beyond, change | metaphor, metamorphosis, metabolism, metahistorical, metainformation |
| meter | measure | meter, voltammeter, barometer, thermometer |
| metr | admeasure, apportion | metrics, asymmetric, parametric, telemetry |
| micro | small, millionth | microscope, microfilm, microcard, microwave, micrometer, microvolt |
| migra | wander | migrate, emigrant, immigrate |
| mill, kilo | thousand | millennium, kilobyte, kiloton |
| milli | thousandth | millisecond, milligram, millivolt |
| min | little, small | minute, minor, minuscule |
| mis | wrong, bad, badly | misconduct, misinform, misinterpret, mispronounce, misnomer, mistake, misogynist |
| mit, miss | send | emit, remit, submit, admit, commit, permit, transmit, omit, intermittent, mission, missile |
| mob, mov, mot | move | motion, remove, mobile, motor |
| mon | warn, remind | monument, admonition, monitor, premonition |
| mono | one | monopoly, monotype, monologue, mononucleosis, monorail, monotheist, |
| mor, mort | mortal, death | mortal, immortal, mortality, mortician, mortuary |
| morph | shape, form | amorphous, dimorphic, metamorphosis, morphology, polymorphic, morpheme, amorphous |
| multi | many, much | multifold, multilingual, multiped, multiply, multitude, multipurpose, multinational |
| nano | billionth | nanosecond, nanobucks |
| nasc, nat, gnant, nai | to be born | nascent, native, pregnant, naive |
| nat, nasc | to be from, to spring forth | innate, natal, native, renaissance |
| neo | new | Neolithic, nuveau riche, neologism, neophyte, neonate |
| -ness | Noun: state, condition, quality | kindness |
| neur | nerve | neuritis, neuropathic, neurologist, neural, neurotic |
| nom | law, order | autonomy, astronomy, gastronomy, economy |
| nom, nym | name | nominate, synonym |
| nomen, nomin | name | nomenclature, nominate, ignominious |
| non | nine | nonagon |
| non | not | nonferrous, nonsense, nonabrasive, nondescript |
| nov | new | novel, renovate, novice, nova, innovate |
| nox, noc | night | nocturnal, equinox, noctilucent |
| numer | number | numeral, numeration, enumerate, innumerable |
| numisma | coin | numismatics |
| ob, oc, of, op | toward, against, in the way | oppose, occur, offer, obtain |
| oct | eight | octopus, octagon, octogenarian, octave |
| oligo | few, little | Oligocene, oligosaccharide, oligotrophic, oligarchy |
| omni | all, every | omnipotent, omniscient, omnipresent, omnivorous |
| onym | name | anonymous, pseudonym, antonym, synonym |
| oper | work | operate, cooperate, opus |
| -or | Noun: condition or activity | valor, honor, humor, minor |
| ortho | straight, correct | orthodox, orthodontist, orthopedic, unorthodox |
| -ory | Noun: place for, serves for | territory, rectory |
| -ous, -eous, -ose, -ious | Adjective: having the quality of, relating to | adventurous, courageous, verbose, fractious |
| over | excessive, above | overwork, overall, overwork |
| pac | peace | pacifist, pacify, pacific ocean |
| pair, pare | arrange, assemblage, two | repair, impair, compare, prepare |
| paleo | old | Paleozoic, Paleolithic, paleomagnetism, paleopsychology |
| pan | all | Pan-American, pan-African, panacea, pandemonium (place of all the demons), |
| para | beside | paradox, paraprofessional, paramedic, paraphrase, parachute |
| pat, pass, path | feel, suffer | patient, passion, sympathy, pathology |

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|------------------------------------|--------------------|--|
| pater, patr | father | paternity, patriarch, patriot, patron, patronize |
| path, pathy | feeling, suffering | pathos, sympathy, antipathy, apathy, telepathy |
| ped, pod | foot | pedal, impede, pedestrian, centipede, tripod, podiatry, antipode, podium |
| pedo | child | orthopedic, pedagogue, pediatrics |
| pel, puls | drive, push, urge | compel, dispel, expel, repel, propel, pulse, impulse, pulsate, compulsory, expulsion, repulsive |
| pend, pens, pond | hang, weigh | pendant, pendulum, suspend, appendage, pensive, append |
| per | through, intensive | persecute, permit, perspire, perforate, persuade |
| peri | around | periscope, perimeter, perigee, periodontal |
| phage | eat | macrophage, bacteriophage |
| phan, phas, phen, fan, phant, fant | show, make visible | phantom, fantasy |
| phe | speak | blaspheme, cipher, phenomenon, philosopher |
| phil | love | philosopher, philanthropy, philharmonic, bibliophile |
| phlegma | inflammation | phlegm, phlegmatic |
| phobia, phobos | fear | phobia, claustrophobia, acrophobia, aquaphobia, ergophobia, homophobia |
| phon | sound | telephone, phonics, phonograph, phonetic, homophone, microphone, symphony, euphonious |
| phot, photo | light | photograph, photoelectric, photogenic, photosynthesis, photon |
| pico | trillionth | picofarad, picocurie, picovolt |
| pict | paint, show, draw | picture, depict |
| plac, plais | please | placid, placebo, placate, complacent |
| pli, ply | fold | reply, implicate, ply |
| plore | cry out, wail | implore, exploration, deploring |
| plu, plur, plus | more | plural, pluralist, plus |
| pneuma, pneumon | breath | pneumatic, pneumonia, |
| pod | foot, feet | podiatry, tripod |
| poli | city | metropolis, police, politics, Indianapolis, megalopolis, acropolis |
| poly | many | polytheist, polygon, polygamy, polymorphous |
| pon, pos, pound | place, put | postpone, component, opponent, proponent, expose, impose, deposit, posture, position, expound, impound |
| pop | people | population, populous, popular |
| port | carry | porter, portable, transport, report, export, import, support, transportation |
| portion | part, share | portion, proportion |
| post | after, behind | postpone, postdate |
| pot | power | potential, potentate, impotent |
| pre, pur | before | precede |
| prehendere | seize, grasp | apprehend, comprehend, comprehensive, prehensile |
| prin, prim, prime | first | primacy, prima donna, primitive, primary, primal, primeval, prince, principal |
| pro | for, foward | propel |
| proto | first | prototype, protocol, protagonist, protozoan, Proterozoic, protoindustrial |
| psych | mind, soul | psyche, psychiatry, psychology, psychosis |
| punct | point, dot | punctual, punctuation, puncture, acupuncture, punctuation |
| pute | think | dispute, computer |
| quat, quad | four | quadrangle, quadruplets |
| quint, penta | five | quintet, quintuplets, pentagon, pentane, pentameter |
| quip | ship | equip, equipment |
| quir, quis, quest, quer | seek, ask | query, inquire, exquisite, quest |
| re | back, again | report, realign, retract, revise, regain |

| | | |
|---|--|--|
| reg, recti | straighten | regiment, regular, rectify, correct, direct, rectangle |
| retro | backwards | retrorocket, retrospect, retrogression, retroactive |
| ri, ridi, risi | laughter | deride, ridicule, ridiculous, derision, risible |
| rog, roga | ask | prerogative, interrogation, derogatory |
| rupt | break | rupture, interrupt, abrupt, disrupt, ruptible |
| sacr, sanc, secr | sacred | sacred, sacrosanct, sanction, consecrate, desecrate |
| salv, salu | safe, healthy | salvation, salvage, salutation |
| sanct | holy | sanctify, sanctuary, sanction, sanctimonious, sacrosanct |
| sat, satis | enough | satient, saturate, satisfy |
| sci, scio, scientia | know | science, conscious, omniscient, cognocenti |
| scope | see, watch | telescope, microscope, kaleidoscope, periscope, stethoscope |
| scrib, script | write | scribe, scribble, inscribe, describe, subscribe, prescribe, manuscript |
| se | apart, move away from | secede |
| sect, sec | cut | intersect, transect, dissect, secant, section |
| sed, sess, sid | sit | sediment, session, obsession, possess, preside, president, reside, subside |
| semi | half, partial | semifinal, semiconscious, semiannual, semimonthly, semicircle |
| sen, scen | old, grow old | senior, senator, senile, senescence, evanescent |
| sent, sens | feel, think | sentiment, consent, resent, dissent, sentimental, sense, sensation, sensitive, sensory, dissension |
| sept | seven | septet, septennial |
| sequ, secu, sue | follow | sequence, consequence, sequel, subsequent, prosecute, consecutive, second, ensue, pursue |
| serv | save, serve, keep | servant, service, subservient, servitude, preserve, conserve, reservation, deserve, conservation, observe |
| -ship | Noun: status, condition | relationship, friendship |
| sign, signi | sign, mark, seal | signal, signature, design, insignia, significant |
| simil, simul | like, resembling | similar, assimilate, simulate, simulacrum, simultaneous |
| sist, sta, stit | stand, withstand, make up | assist, insist, persist, circumstance, stamina, status, state, static, stable, stationary, substitute |
| soci | to join, companions | sociable, society |
| sol, solus | alone | solo, soliloquy, solitaire, solitude, solitary, isolate |
| solv, solu, solut | loosen, explain | solvent, solve, absolve, resolve, soluble, solution, resolution, resolute, dissolute, absolution |
| somn | sleep | insomnia, somnambulist |
| soph | wise | sophomore (wise fool), philosophy, sophisticated |
| spec, spect, spi, spic | look, see | specimen, specific, spectator, spectacle, aspect, speculate, inspect, respect, prospect, retrospective, introspective, expect, conspicuous |
| sper | render favorable | prosper |
| sphere | ball, sphere | sphere, stratosphere, hemisphere, spheroid |
| spir | breath | spirit, conspire, inspire, aspire, expire, perspire, respiration |
| stand, stant, stab, stat, stan, sti, sta, st, stead | stand | stature, establish, stance |
| -ster | person | mobster, monster |
| strain, strict, string, stige | bind, pull, draw tight | stringent, strict, restrict, constrict, restrain, boa constrictor |
| stru, struct, stroy, stry | build | construe, structure, construct, instruct, obstruct, destruction, destroy, industry, ministry |
| sub, suc, suf, sup, sur, sus | under, below, from, secretly, instead of | sustain, survive, support, suffice, succeed, submerge, submarine, substandard, subnormal, subvert |
| sume, sump | take, use, waste | consume, assume, sump, presumption |
| super, supra | over, above | superior, suprarenal, superscript, supernatural, superimpose, supercede |
| syn, sym | together, at the same time | sympathy, synthesis, synchronous, syndicate |
| tact, tang, tag, tig, ting | touch | tactile, contact, intact, intangible, tangible, contagious, contiguous, contingent |

| | | |
|-------------------------|---|--|
| tain, ten, tent, tin | hold, keep, have | retain, continue, content, tenacious |
| tect, teg | cover | detect, protect, tegular, tegument |
| tele | distance, far, from afar | telephone, telegraph, telegram, telescope, television, telephoto, telecast, telepathy, telepathy |
| tem, tempo | time | tempo, temporary, extemporaneously, contemporary, pro tem, temporal |
| ten, tin, tain | hold | tenacious, tenant, tenure, untenable, detention, retentive, content, pertinent, continent, obstinate, contain, abstain, pertain, detain |
| tend, tent, tens | stretch, strain | tendency, extend, intend, contend, pretend, superintend, tender, extent, tension, pretense |
| tera | trillion | terabyte, teraflop |
| term | end, boundary, limit | exterminate, terminal |
| terr, terra | earth | terrain, terrarium, territory, terrestrial |
| test | to bear witness | testament, detest, testimony, attest, testify |
| the, theo | God, a god | monotheism, polytheism, atheism, theology |
| therm | heat | thermometer, theorem, thermal, thermos bottle, thermostat, hypothermia |
| thesis, thet | place, put | antithesis, hypothesis, synthesis, epithet |
| tire | draw, pull | attire, retire, entire |
| tom | cut | atom (not cutable), appendectomy, tonsillectomy, dichotomy, anatomy |
| tor, tors, tort | twist | torture, retort, extort, distort, contort, torsion, tortuous, torturous |
| tox | poison | toxic, intoxicate, antitoxin |
| tract, tra, trai, treat | drag, draw, pull | attract, tractor, traction, extract, retract, protract, detract, subtract, contract, intractable |
| trans | across, beyond, change | transform, transoceanic, transmit, transportation, transducer |
| tri | three | tripod, triangle, trinity, trilateral |
| trib | pay, bestow | tribute, contribute, attribute, retribution, tributary |
| tribute | give | contribute, distribute, tributary |
| turbo | disturb | turbulent, disturb, turbid, turmoil |
| typ | print | type, prototype, typical, typography, typewriter, typology, typify |
| ultima | last | ultimate, ultimatum |
| umber, umbraticum | shadow | umbra, penumbra, (take) umbrage, adumbrate |
| un | not, against, opposite | unceasing, unequal |
| uni | one | uniform, unilateral, universal, unity, unanimous, unite, unison, unicorn |
| -ure | Noun: act, condition, process, function | exposure, conjecture, measure |
| vac | empty | vacate, vacuum, evacuate, vacation, vacant, vacuous |
| vade | go | evade, invader |
| vale, vali, valu | strength, worth | equivalent, valiant, validity, evaluate, value, valor |
| veh, vect | to carry | vector, vehicle, convection, vehement |
| ven, vent | come | convene, intervene, venue, convenient, avenue, circumvent, invent, convent, venture, event, advent, prevent |
| ver, veri | true | very, aver, verdict, verity, verify, verisimilitude |
| verb, verv | word | verify, veracity, verbalize, verve |
| vert, vers | turn, change | convert, revert, advertise, versatile, vertigo, invert, reversion, extravert, introvert, diversion, introvert, convertible, reverse, controversy |
| vi | way | viable, vibrate, vibrant |
| vic, vicis | change, substitute | vicarious, vicar, vicissitude |
| vict, vinc | conquer | victor, evict, convict, convince, invincible |
| vid, vis | see | video, evident, provide, providence, visible, revise, supervise, vista, visit, vision, review, indivisible |
| viv, vita, vivi | alive, life | revive, survive, vivid, vivacious, vitality, vivisection, vital, vitamins, revitalize |
| voc, voke | call | vocation, avocation, convocation, invocation, evoke, provoke, revoke, advocate, provocative, vocal |

| | | |
|-----------------|---|---|
| vol | will | malevolent, benevolent, volunteer, volition |
| volcan | fire | volcano, vulcanize, Vulcan |
| volv, volt, vol | turn about, roll | revolve, voluble, voluminous, convulsion, revolt, evolution |
| vor | eat greedily | voracious, carnivorous, herbivorous, omnivorous, devour |
| -ward | Adverb: in a direction or manner | homeward |
| -wise | Adverb: in the manner of, with regard to | timewise, clockwise, bitwise |
| with | against | withhold, without, withdraw, forthwith |
| -y | Noun: state, condition, result of an activity | society, victory |
| -y | Adjective: marked by, having | hungry, angry, smeary, teary |
| zo | animal | zoo (zoological garden), zoology, zodiac, protozoan |

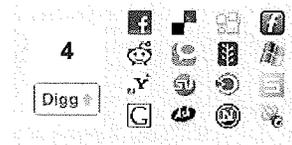
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CERTIFICATE OF SERVICE

I am a resident of the State of California and over the age of eighteen years, and not a party to the within action; my business address is One Market, Spear Street Tower, **San Francisco**, CA 94105.

On **May 30, 2012**, I served the within documents:

**NOTICE OF OPPOSITION and Exhibits A-B
(Application Serial Number # 85/371,390)**



(BY MAIL) by placing the document(s) listed above in a sealed envelope with postage thereon fully prepaid, in the United States mail at **San Francisco**, California addressed as set forth below. I am readily familiar with the firm's practice of collection and processing correspondence for mailing. Under that practice it would be deposited with the U.S. Postal Service on that same day with postage thereon fully prepaid in the ordinary course of business. I am aware that on motion of the party served, service is presumed invalid if postal cancellation date or postage meter date is more than one day after date of deposit for mailing in affidavit.



(BY FEDERAL EXPRESS) I placed the sealed envelope(s) or package(s) designated by the express service carrier for collection and delivery to the party/ies listed below:

**LORI LEE YAMATO
KNOBBE, MARTENS, OLSON & BEAR, LLP
2040 MAIN ST FL 14
IRVINE, CA 92614-8214**

Attorney for Applicant, Skyworks Solutions, Inc.

I declare under penalty of perjury under the laws of the State of California and the United States of America that the foregoing is true and correct, and that this declaration was executed on **May 30, 2012**, at **San Francisco**, California.



Yelena Lolua