

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Jeffrey A. Dean</td><td>01/22/2002</td></tr><tr><td>Georges Harik</td><td>01/22/2002</td></tr><tr><td>Benedict A. Gomes</td><td>01/22/2002</td></tr><tr><td>Noam M. Shazeer</td><td>01/22/2002</td></tr></tbody></table>	Name	Execution Date	Jeffrey A. Dean	01/22/2002	Georges Harik	01/22/2002	Benedict A. Gomes	01/22/2002	Noam M. Shazeer	01/22/2002	
Name	Execution Date										
Jeffrey A. Dean	01/22/2002										
Georges Harik	01/22/2002										
Benedict A. Gomes	01/22/2002										
Noam M. Shazeer	01/22/2002										
RECEIVING PARTY DATA											
Name:	Google Inc.										
Street Address:	1600 Amphitheatre Parkway										
City:	Mountain View										
State/Country:	CALIFORNIA										
Postal Code:	94043										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>11180083</td></tr></tbody></table>	Property Type	Number	Application Number:	11180083							
Property Type	Number										
Application Number:	11180083										
CORRESPONDENCE DATA											
Fax Number:	(877)769-7945										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	(650) 839-5070										
Email:	quintana@fr.com										
Correspondent Name:	Elspeth S. White										
Address Line 1:	FISH & RICHARDSON P.C.										
Address Line 2:	P.O.BOX 1022										
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022										
ATTORNEY DOCKET NUMBER:	16113-1578002										
NAME OF SUBMITTER:	Linda L. Quintana										
Total Attachments: 3											

CH 11180083 \$40.00

500810940

PATENT  
REEL: 022415 FRAME: 0496

source=16113\_1578001Assignment#page1.tif

source=16113\_1578001Assignment#page2.tif

source=16113\_1578001Assignment#page3.tif

**ASSIGNMENT  
(Joint)  
Worldwide Rights**

THIS ASSIGNMENT, by Jeffrey DEAN, Georges HARIK, Benedict GOMES, and Noam SHAZEER, residing at 884 Fifteenth Ave, Menlo Park, CA 94025, 950 High School Way #3135, Mountain View, CA 94041, 1528 Oxford Street, Berkeley, CA 94709, and 455 Forest Ave #2, Palo Alto, CA 94301 (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in METHODS AND APPARATUS FOR DETERMINING EQUIVALENT DESCRIPTIONS FOR AN INFORMATION NEED set forth in an application for Letters Patent of the United States,

- (1) ☐ which is a provisional application  
(a) ☐ filed herewith; or  
(b) ☐ bearing Application No. \_\_\_\_\_, and filed on \_\_\_\_\_; or
- (2) ☒ which is a non-provisional application  
(a) ☐ having an oath or declaration executed on even date herewith prior to filing of application;  
(b) ☐ bearing Application No. \_\_\_\_\_, and filed on \_\_\_\_\_; or  
(c) ☒ filed herewith; and

WHEREAS, Google, Inc., a corporation duly organized under and pursuant to the laws of California and having its principal place of business at 2400 Bayshore Parkway, Mountain View, California 94043 (hereinafter referred to as "the Assignee"), is desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications, including provisional applications for Letters Patent of the United States or other countries claiming priority to said application, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon.

NOW, THEREFORE, be it known that for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the above-mentioned inventions, the right to file applications on said inventions and the entire right, title and interest in and to any applications for Letters Patent of the United States or other countries claiming priority to said applications, and any and all Letters Patent or Patents of the United States of America and all foreign countries that may be granted therefor and thereon, and in and to any and all applications claiming priority to said applications, divisions, continuations, and continuations-in-part of said applications, and reissues and extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf and the use and behalf of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same would have been held and enjoyed by the Assignors had this sale and assignment not been made;

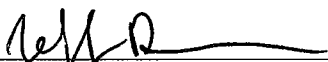
AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional applications, above-mentioned, and that the same are unencumbered, and that the Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or

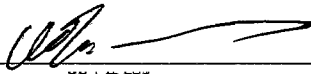
Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby authorize and request the attorneys of Harrity & Snyder, L.L.P. of Fairfax, Virginia to insert in the spaces provided above the filing date, application number, and attorney docket number of said application when known.

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

  
Jeffrey DEAN

Date: 1/22/2002

  
Georges HARIK

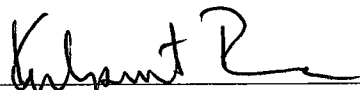
Date: 1/22/2002

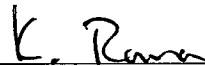
  
Benedict GOMES

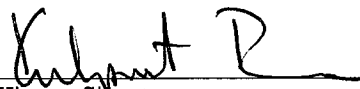
Date: 1/22/2002

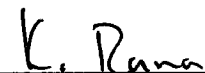
  
Noam SHAZLER

Date: 1/22/2002


  
Witness Signature

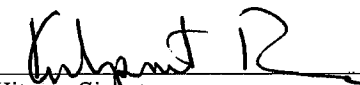
  
Witness Name

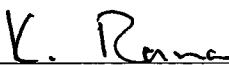
  
Witness Signature

  
Witness Name

  
Witness Signature

  
Witness Name

  
Witness Signature

  
Witness Name