

PATENT ASSIGNMENT COVER SHEET

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NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT		
EFFECTIVE DATE:	05/11/1998		
CONVEYING PARTY DATA			
Name			Execution Date
DANIEL F. LIEUWEN			05/30/2014
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PROPERTY NUMBERS Total: 1			
Property Type	Number		
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DATE SIGNED:	06/02/2014		
Total Attachments: 2			
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NUNC PRO TUNC ASSIGNMENT

THIS NUNC PRO TUNC ASSIGNMENT (this "Assignment") is made this 27 day of May, 2014, effective as of May 11, 1998, by Daniel F. Lieuwen, of Hoboken, New Jersey, U.S.A. ("Assignor").

WITNESSETH

WHEREAS, Assignor is a joint inventor of the inventions related to **REFRESHING MATERIALIZED VIEWS OF A DATABASE TO MAINTAIN CONSISTENCY WITH UNDERLYING DATA** described in an application for Letters Patent of the United States, **Application Serial No. 09/075,728** filed on **May 11, 1998**, issued on **August 7, 2001**, as **U.S. Patent No. 6,272,502**; and

WHEREAS, Assignor is desirous of assigning to Lucent Technologies, Inc., a U.S. corporation ("Assignee"), as of May 11, 1998, the aforesaid inventions related to **REFRESHING MATERIALIZED VIEWS OF A DATABASE TO MAINTAIN CONSISTENCY WITH UNDERLYING DATA** described in an application for Letters Patent of the United States, **Application Serial No. 09/075,728** filed on **May 11, 1998**, issued on **August 7, 2001**, as **U.S. Patent No. 6,272,502**.

NOW, THEREFORE, for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor agrees as follows:

1. For value received, Assignor hereby, sells, assigns, transfers, conveys and delivers to Assignee, nunc pro tunc, effective as of May 11, 1998, the entire right, title and interest, for the United States of America, in and to the inventions related to **REFRESHING MATERIALIZED VIEWS OF A DATABASE TO MAINTAIN CONSISTENCY WITH UNDERLYING DATA** described in an application for Letters Patent of the United States, **Application Serial No. 09/075,728** filed on **May 11, 1998**, issued on **August 7, 2001**, as **U.S. Patent No. 6,272,502**, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and Assignor also concurrently hereby sells, assigns and transfers to Assignee the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

2. Assignor hereby authorizes Assignee to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from me, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

3. Assignor hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Assignee to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

4. Assignor hereby requests that any and all patents for said inventions be issued to Assignee in the United States and in all countries foreign to the United States, or to such nominees as Assignee may designate.



May 29, 2014
PATENT

I agree that, when requested, I shall, without charge to Assignee but at its expense, sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection *provided the time required does not exceed one hour per annum. DFL*

IN WITNESS WHEREOF, the undersigned has executed this Nunc Pro Tunc Assignment as of the date first above written.


Daniel F. Leuwen

May 30, 2014
Date