

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to the undersigned INVENTOR(S) (the Assignors), the undersigned hereby sell and assign their entire right, title and interest to THE TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA (the Assignee), a non-profit corporation organized and existing under the laws of the Commonwealth of Pennsylvania having its principal place of business at 3700 Market Street, Suite 300, Philadelphia, Pennsylvania 19104-3147 for

Check applicable box(es): the United States of America (as defined in 35 U.S.C. § 100),
 and throughout the world,

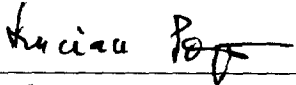
in the invention known as SYSTEMATIC APPROACH TO QUERY OPTIMIZATION, filed _____ (also known as U.S. Application Serial No. _____), in any and all applications thereon, in any and all Letters Patent(s) therefor, and in any and all reissues, extensions, renewals, reexaminations of such applications or Letters Patent(s) and divisionals and continuing applications thereof to the full end of the term or terms for which such Letters Patent(s) issue, such entire right, title and interest to be held and enjoyed by the above-named Assignee to the same extent as they would have been held and enjoyed by the undersigned had this assignment and sale not been made.

The undersigned agree to execute all papers necessary in connection with the application and any continuing, divisional, reissue, reexamination or corresponding applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree to execute all papers necessary in connection with any interference that may be declared concerning the application or any continuing, divisional, reissue or reexamination applications thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned hereby represents that they have full right to convey undersigned entire interest herein assigned, and that they have not executed, and will not execute, any agreement in conflict therewith.

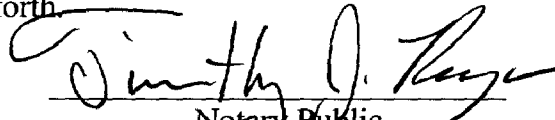
IN WITNESS WHEREOF, executed by the undersigned on the dates opposite their names.

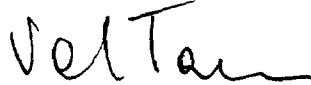
Date: 01/19/2001 Signature of Inventor: 

LUCIAN POPA
~~SS~~ L.P.

Commonwealth of Pennsylvania :
COUNTY of Philadelphia : SS

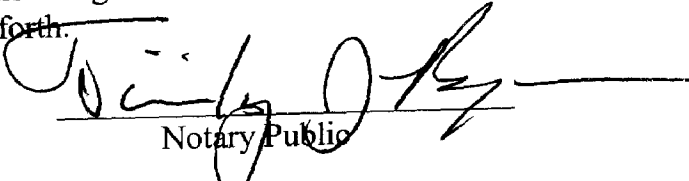
On this 19th day of January 200~~0~~¹, before me personally came the above LUCIEN POPA, to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that he executed the same of his own free will for the use and purposes therein set forth.

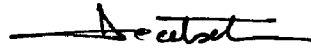

Notary Public

Date: 01/18/2001 Signature of Inventor: x 
VAL TANNEN

Commonwealth of Pennsylvania :
COUNTY of Philadelphia : SS

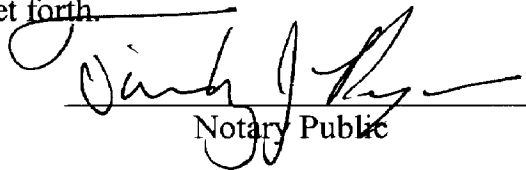
On this 19th day of January 200~~0~~¹, before me personally came the above VAL TANNEN, to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that he executed the same of his own free will for the use and purposes therein set forth.

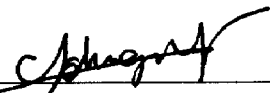

Notary Public

Date: 01/19/01 Signature of Inventor: 
ALIN DEUTSCH

Commonwealth of Pennsylvania :
COUNTY of Philadelphia : SS

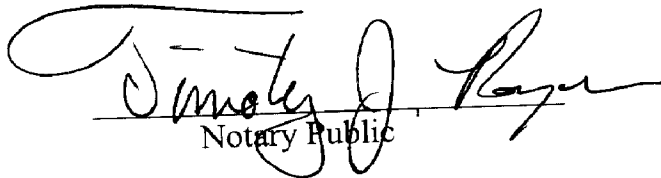
On this 19th day of January ^{tjv} 2000, before me personally came the above ALIN DEUTSCH, to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that he executed the same of his own free will for the use and purposes therein set forth.


Notary Public

Date: 1/19/01 Signature of Inventor: 
ARNAUD SAHUGUET

Commonwealth of Pennsylvania :
COUNTY of Philadelphia : SS

On this 19th day of January ^{tjv} 2000, before me personally came the above ARNAUD SAHUGUET, to me personally known and known to me to be the same individual who executed the foregoing assignment, and who acknowledged to me that he executed the same of his own free will for the use and purposes therein set forth.


Notary Public