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To the Honorable Commissioner of Pa

102500611

Attached original documents or copy thereof

1. Name of conveying party(ies):

Norden Huang

Additional name(s) of conveying party(ies) attached?  Yes  No

7-8-03

2. Name and address of receiving party(ies)

Name: United States of America as represented by the Administrator of the National Aeronautics and Space Administration

Street Address:

City: Washington State: DC ZIP: 20546

Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:

- Assignment, Merger, Security Agreement, Change of Name, Other

Execution Date: 7/3/03

4. Application number(s) or patent number(s):

10615365

If this document is being filed together with a new application, the execution date of the application is: 7/3/03

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Chan K. Park

Internal Address: Office of Patent Counsel

Code 503

Street Address: NASA GSFC

City: Greenbelt State: MD ZIP: 20771

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40

- Enclosed, Authorized to be charged to deposit account

8. Deposit account number: 14-0116

(Attach duplicate copy of this page if paying by deposit account)

07/18/2003 LINDLER 0000036 140116 10615365

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9. 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.

Chan Park, 48,175 Name of Person Signing

Signature

7/3/03 Date

Total number of pages including cover sheet, attachments, and document: 2



### Assignment to the Government (by Government Employee)

Title of Invention: COMPUTING INSTANTANEOUS FREQUENCY BY NORMALIZING HILBERT TRANSFORM

Inventor(s): Norden E. Huang

NASA Case No.: GSC 14,673-1 Application No.\*: \_\_\_\_\_ Filing Date\*: \_\_\_\_\_

WHEREAS, the parties to this Assignment and Agreement are the undersigned inventor(s) and the United States Government (hereafter Government), as represented by the Administrator of the National Aeronautics and Space Administration;

WHEREAS, the making of this Assignment and Agreement is in accordance with 37 CFR Part 501; and

WHEREAS, the undersigned inventor(s) has (have) executed, on the date(s) indicated below, an application for United States Patent on the above-entitled invention.

NOW THEREFORE, in consideration of employment by the Government, the undersigned hereby:

1. Assign to the Government my (our) full and exclusive right in and to said invention within the United States of America, its territories and possessions, and my (our) entire right, title and interest in and to said application, and any corresponding continuation or divisional application(s) and any patent(s) that may issue therefrom.

2. Agree to grant to the Government my (our) full and exclusive foreign rights in and to said invention, in accordance with 37 CFR 501.9(d), including rights of priority under the International Convention of Paris (1883), as amended. If the Government chooses not to file an application in any foreign country, I (we) may request rights in that country, in accordance with 37 CFR 501.9(d), and such rights will be subject to the reservation to the Government of a nonexclusive, irrevocable, royalty-free license in the invention with power to grant licenses for all governmental purposes. The terms of such reservation will appear, where practicable, in any foreign patent which may issue on such invention.

3. Agree, at the expense of the Government, (a) to execute any document for, (b) to deliver any requested information to, and (c) to cooperate in any manner with the Government in order to allow the Government to protect any interest transferred by this Assignment and Agreement.

\*4. Authorize and request the attorneys of record in the application to insert the application number and filing date above when required.

[Signature]  
(Signature of Inventor)  
Norden E. Huang  
(Inventor's Typed Name)

July 3, 2003      July 3, 2003  
(Date Assignment Executed)      (Date Application Executed)  
7204 Selkirk Drive, Bethesda, Maryland, 20817, U.S.A  
(Mailing Address - Including Country)

\_\_\_\_\_  
(Signature of Inventor)

\_\_\_\_\_  
(Date Assignment Executed)      (Date Application Executed)

\_\_\_\_\_  
(Inventor's Typed Name)

\_\_\_\_\_  
(Mailing Address - Including Country)

\_\_\_\_\_  
(Signature of Inventor)

\_\_\_\_\_  
(Date Assignment Executed)      (Date Application Executed)

\_\_\_\_\_  
(Inventor's Typed Name)

\_\_\_\_\_  
(Mailing Address - Including Country)