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OMB 0651-0027



05-10-2001

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**



101713149

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**PATENT**  
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**Application Number(s) or Patent Number(s)**  Mark if additional numbers attached

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Patent Application Number(s)

Patent Number(s)

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor. Month Day Year

**Patent Cooperation Treaty (PCT)**

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT

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PCT

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**Number of Properties** Enter the total number of properties involved. #

**Fee Amount** Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment: Enclosed  Deposit Account

Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: #

Authorization to charge additional fees: Yes  No

**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. Charges to deposit account are authorized, as indicated herein.

J. Warren Lytle, Jr.  
Name of Person Signing

Signature

May 4, 2001  
Date

### ASSIGNMENT

WHEREAS, Avesta Technologies, Inc., a corporation organized under the laws of the State of Delaware, and located at 2 Rector Street, New York, New York 10006, possesses the entire right, title and interest in and to the invention entitled "Dynamic Modeling of Complex Networks and Prediction of Impacts of Faults Therein", and in and to any Letters Patent that may be granted therefor in the United States and in any and all foreign countries, and for which a patent application for United States Letters Patent was filed on March 26, 1998 (U.S. Patent Application Serial No. 09/048,025).

WHEREAS, Visual Networks Technologies, Inc., a corporation of the State of California, having a place of business at 2092 Gaither Road, Rockville, Maryland 20850, is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefor in the United States and in any and all foreign countries.

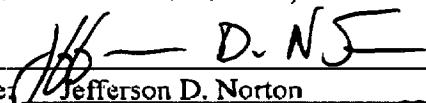
NOW, THEREFORE, for valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Avesta Technologies, Inc. has sold, assigned and transferred, and by these presents does sell, assign and transfer unto Visual Networks Technologies, Inc. the full and exclusive right to said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted thereon in the United States and its territorial possessions and in any and all foreign countries, and in and to any and all non-provisionals, divisions, reissues, continuations and extensions thereof pertaining to said invention.

Avesta Technologies, Inc. hereby authorizes and request the Patent and Trademark Office officials in the United States and in any and all foreign countries to issue any and all of said Letters Patent, when granted, to said Visual Networks Technologies, Inc. as the assignee of the entire interest in and to the same, for the sole use and behalf of Visual Networks Technologies, Inc., its successors and assigns.

FURTHER, Avesta Technologies, Inc. agrees to execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to Visual Networks Technologies, Inc., make all rightful oaths and generally do everything possible to aid Visual Networks Technologies, Inc., its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

IN TESTIMONY WHEREOF, Avesta Technologies, Inc. hereby caused the Assignment to be duly executed and set its hand on the date set forth below.

AVESTA TECHNOLOGIES, INC.

By:   
 Name: Jefferson D. Norton  
 Title: Associate General Counsel  
 Date: May 2, 2001