

PATENT ASSIGNMENT

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | EXECUTIVE ORDER 9424, CONFIRMATORY LICENCE |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Massachusetts Institute of Technology | 06/18/1999 |
| RECEIVING PARTY DATA | |
| Name: | National Science Foundation |
| Street Address: | 4201 Wilson Blvd. |
| Internal Address: | rm 1265 |
| City: | Arlington |
| State/Country: | VIRGINIA |
| Postal Code: | 22230 |
| PROPERTY NUMBERS Total: 2 | |
| Property Type | Number |
| Application Number: | 09049429 |
| Application Number: | 09049814 |
| CORRESPONDENCE DATA | |
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| NAME OF SUBMITTER: | R. Fritsch |
| Total Attachments: 2 source=Conf_lic58016#page1.tif source=Conf_lic58017#page1.tif | |

LICENSE TO THE UNITED STATES GOVERNMENT

WHEREAS, Kai-Yeung S. Siu has invented "Virtual Queuing Techniques For UBR Plus Service in ATM" and filed a patent application thereon in the United States, entitled "Network Switching System Supporting Guaranteed Data Rates" and bearing Serial Number 09/049,429 and filing date March 27, 1998; and

WHEREAS, invention was made in the course of research supported by the National Science Foundation under N.S.F. Grant Number MIP-9357553; and

WHEREAS, the United States Government is entitled to certain rights in and to said invention and application by reason of the terms relating to such support; and

WHEREAS, the Massachusetts Institute of Technology, hereinafter called the "Licensor" has acquired by assignment from the inventors the entire right, title and interest of the inventors to such invention;

NOW, THEREFORE:

1. The Licensor, in consideration of the premises and other good and valuable consideration, hereby grants and conveys to the United States Government a non-exclusive, non-transferable, paid-up license to make, use and sell the invention throughout the world by or on behalf of the Government of the United States and states and domestic municipal governments under the aforesaid patent application and any and all divisions or continuations, and in any and all patents or reissues which may be granted thereon during the full term or terms thereof.

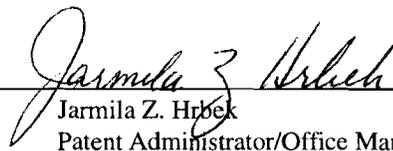
2. The Licensor covenants and warrants that he has the right to grant the foregoing license, and that any assignment or license which he may make of the invention or the said patent application or patents thereon, shall expressly be made subject to this license.

3. The Licensor agrees that the Government shall not be estopped at any time to contest the enforceability, validity, scope of or title to any patent or patent application herein licensed.

4. This License shall not limit the rights reserved to the Government under the contract(s), grant(s), or other arrangement(s) under which said invention was made.

Signed this 18 day of June, 1999 .

MASSACHUSETTS INSTITUTE OF TECHNOLOGY



Jarmila Z. Hrbek
Patent Administrator/Office Manager

Accepted for the benefit of the Government this _____

Patent Paralegal
NATIONAL SCIENCE FOUNDATION

LICENSE TO THE UNITED STATES GOVERNMENT

WHEREAS, Kai-Yeung S. Siu has invented "An Acknowledgement Bucket Scheme For Regulating TCP Flow Over ATM" and filed a patent application thereon in the United States, entitled "Method for Regulating TCP Flow Over Heterogeneous Networks" and bearing Serial Number 09/049,814 and filing date March 27, 1998; and

WHEREAS, invention was made in the course of research supported by the National Science Foundation under N.S.F. Grant Number MIP-9357553; and

WHEREAS, the United States Government is entitled to certain rights in and to said invention and application by reason of the terms relating to such support; and

WHEREAS, the Massachusetts Institute of Technology, hereinafter called the "Licensor" has acquired by assignment from the inventors the entire right, title and interest of the inventors to such invention;

NOW, THEREFORE:

1. The Licensor, in consideration of the premised and other good and valuable consideration, hereby grants and conveys to the United States Government a non-exclusive, non-transferable, paid-up license to make, use and sell the invention throughout the world by or on behalf of the Government of the United States and states and domestic municipal governments under the aforesaid patent application and any and all divisions or continuations, and in any and all patents or reissues which may be granted thereon during the full term or terms thereof.

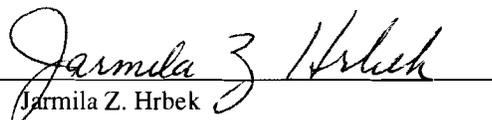
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