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(REV. 6-93)  
OMB No. 0651-0011 (exp. 4/94)



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4. Application number(s) or patent number(s):  
If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_  
A. Patent Application No.(s)  
09/135,585  
B. Patent No.(s)  
\_\_\_\_\_  
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5. Name and address of party to whom correspondence concerning document should be mailed:  
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Internal Address:  
Office of General Counsel  
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7. Total fee (37 CFR 3.41) ..... \$ 40.00  
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Total number of pages including cover sheet, attachments, and document: 4

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CONFIRMATORY INSTRUMENT

**APPLICATION FOR (TITLE OF INVENTION)**

DYNAMIC OPTICAL ADD-DROP MULTIPLEXERS AND WAVELENGTH-ROUTING NETWORKS  
WITH IMPROVED SURVIVABILITY AND MINIMIZED SPECTRAL FILTERING

**INVENTOR(S):**

Karen Liu, Weyl-Kuo Wang and Chaoyu Yue

|   |                                |
|---|--------------------------------|
| SERIAL NO. 09/135,585   | FILING DATE: 08/18/98          |
| CONTRACTOR:<br>INTERNATIONAL BUSINESS<br>MACHINES CORPORATION | CONTRACT NO. MDA-972-95-C-0001 |

The Invention identified above is a "Subject Invention" under Patent Rights Clause

52,227-12, June 1989 - Patent Rights - Retention by the Contractor included in  
(Identify Clause by Title and Date)

Contract No. MDA-972-95-C-0001

with Advanced Research Projects Agency (ARPA)  
(SPECIFY GOV'T. AGENCY HERE)

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Signed this 20<sup>th</sup> day of March, 192000

(SEAL)

INTERNATIONAL BUSINESS  
MACHINES CORPORATION  
CONTRACTOR

BY:   
CONTRACTOR'S OFFICIAL AND TITLE

Gerald Rosenthal  
Vice-President Intellectual Property and  
Licensing Services

IBM Disclosure No.: Y0896-0166

IBM Docket No.: Y0996-209C

North Castle Drive  
Armonk, New York 10504  
BUSINESS ADDRESS

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