



1                   **IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

2   Inventor.....Jonathan Forbes  
3   Applicant ..... Microsoft Corporation  
4   Attorney's Docket No. .... MS1-233US  
5   Title: Efficient Memory Usage for Two-Pass Compression

6                   **PATENT ASSIGNMENT**

7                   **PARTIES TO THE ASSIGNMENT**

8                   Assignor(s):

9                   Jonathan Forbes  
10                  9000 Lake Washington Blvd.  
11                  Bellevue, WA 98004

12                  Assignee:

13                  Microsoft Corporation  
14                  Corporation of the State of Washington  
15                  One Microsoft Way  
16                  Redmond, WA 98052-6399

17                  **AGREEMENT**

18                  WHEREAS, Assignor(s) are inventor(s) of an invention entitled " Efficient  
19                  Memory Usage for Two-Pass Compression," as described and claimed in the  
20                  specification forming part of an application for United States letters patent  
21                  executed herewith;

22                  WHEREAS, Microsoft, a corporation of the State of Washington having a  
23                  place of business at One Microsoft Way, Redmond, WA 98052, is desirous of  
24                  acquiring the entire right, title and interest in and to the invention and in and to any  
25                  letters patent that may be granted therefor in the United States and in any and all  
                      foreign countries;

                      NOW, THEREFORE, in exchange for good and valuable consideration, the  
                      receipt of which is hereby acknowledged, Assignor(s) hereby sell, assign and

1 transfer unto Microsoft, the entire right, title and interest in and to said invention,  
2 said application and any and all letters patent which may be granted for said  
3 invention in the United States of America and its territorial possessions and in any  
4 and all foreign countries, and in any and all divisions, reissues and continuations  
5 thereof, including the right to file foreign applications directly in the name of  
6 Microsoft and to claim priority rights deriving from said United States application  
7 to which said foreign applications are entitled by virtue of international  
8 convention, treaty or otherwise, said invention, application and all letters patent on  
9 said invention to be held and enjoyed by Microsoft and its successors and assigns  
10 for their use and benefit and of their successors and assigns as fully and entirely as  
11 the same would have been held and enjoyed by Assignor(s) had this assignment,  
12 transfer and sale not been made. Assignor(s) hereby authorize and request the  
13 Commissioner of Patents and Trademarks to issue all letters patent on said  
14 invention to Microsoft. Assignor(s) agree to execute all instruments and  
15 documents required for the making and prosecution of applications for United  
16 States and foreign letters patent on said invention, for litigation regarding said  
17 letters patent, or for the purpose of protecting title to said invention or letters  
18 patent therefor.  
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5/4/98  
Date

J. Forbes  
Jonathan Forbes

State of Washington )  
  ) ss.  
County of King )

I certify that I know or have satisfactory evidence Jonathan Forbes is the person who appeared before me, and said person acknowledged that he signed this instrument and acknowledged it to be his free and voluntary act for the uses and purposes mentioned in the instrument.

Dated 5/4/98

Signature of Heather Garcia  
Notary Public

My appointment expires 2/9/00

