

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Thomas E. Ludwig</td><td>12/11/1989</td></tr><tr><td>Thomas W. Craft</td><td>12/11/1989</td></tr></tbody></table>	Name	Execution Date	Thomas E. Ludwig	12/11/1989	Thomas W. Craft	12/11/1989	
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Thomas E. Ludwig	12/11/1989						
Thomas W. Craft	12/11/1989						
RECEIVING PARTY DATA							
Name:	AST Research, Inc.						
Street Address:	2121 Alton Avenue						
City:	Irvine						
State/Country:	CALIFORNIA						
Postal Code:	92714-4992						
PROPERTY NUMBERS Total: 1							
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Patent Number:</td><td>5555381</td></tr></tbody></table>	Property Type	Number	Patent Number:	5555381			
Property Type	Number						
Patent Number:	5555381						
CORRESPONDENCE DATA							
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NAME OF SUBMITTER:	Michael D. Specht						
Total Attachments: 2							
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PATENT
REEL: 021630 FRAME: 0118

ASSIGNMENT

WHEREAS, We, Thomas E. Ludwig, a citizen of the United States of America, residing at 6 Salk, Irvine, California 92720; and Thomas W. Craft, a citizen of the United States of America, residing at 28031 Sheffield, Mission Viejo, California 92692, have invented certain new and useful improvements in a MICROCOMPUTER ARCHITECTURE UTILIZING AN ASYNCHRONOUS BUS BETWEEN MICROPROCESSOR AND INDUSTRY STANDARD SYNCHRONOUS BUS, for which we have executed an application for Letters Patent in the United States, Serial No. 433,982, filed November 9, 1989.

AND WHEREAS, AST RESEARCH, INC., a Delaware Corporation, with its principal place of business at 2121 Alton Avenue, Irvine, California 92714-4992, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) each to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto AST RESEARCH, INC., its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to AST RESEARCH, INC., its successors, legal representatives and assigns, in accordance with the terms of this instrument.

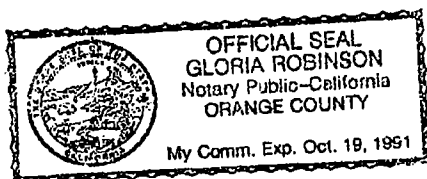
AND WE HEREBY covenant and agree that we will communicate to AST RESEARCH, INC., its successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid AST RESEARCH, INC., its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

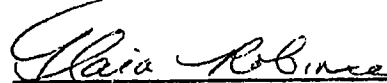
IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 11 day of December, 1989.


Thomas E. Ludwig

STATE OF CALIFORNIA }
COUNTY OF ORANGE } ss.

On this 11th day of December, 1989, before me, a Notary Public in and for the State and County aforesaid, personally appeared Thomas E. Ludwig, personally known to me or proven on the basis of satisfactory evidence to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be his/her free act and deed.




Notary Public in and for the aforesaid
County and State
My Commission Expires: 10-19-91

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 11th day of December, 1989.

Thomas W. Craft
Thomas W. Craft

STATE OF CALIFORNIA }
COUNTY OF ORANGE } ss.

On this 11th day of December, 1989, before me, a Notary Public in and for the State and County aforesaid, personally appeared **Thomas W. Craft**, personally known to me or proven on the basis of satisfactory evidence to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be his/her free act and deed.



Gloria Robinson
Notary Public in and for the aforesaid
County and State
My Commission Expires: 10/19/91

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