

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SECURITY AGREEMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Micro-ASI, Inc.	04/26/2001
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Eaglestone Investment Partners I, L.P.
<b>Street Address:</b>	400 Oceangate
<b>Internal Address:</b>	Suite 1125
<b>City:</b>	Long Beach
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	90802
<b>PROPERTY NUMBERS Total: 3</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	6440771
Patent Number:	6927593
Application Number:	09738193
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(214)363-8177
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	214-750-5666
<b>Email:</b>	lawrence@dy-iplaw.com
<b>Correspondent Name:</b>	Lawrence R. Youst
<b>Address Line 1:</b>	5910 North Central Expressway
<b>Address Line 2:</b>	Premier Place Suite 1450
<b>Address Line 4:</b>	Dallas, TEXAS 75206
<b>ATTORNEY DOCKET NUMBER:</b>	1384-0001
<b>NAME OF SUBMITTER:</b>	Lawrence R. Youst

**OP \$120.00 6440771**

**Total Attachments: 10**

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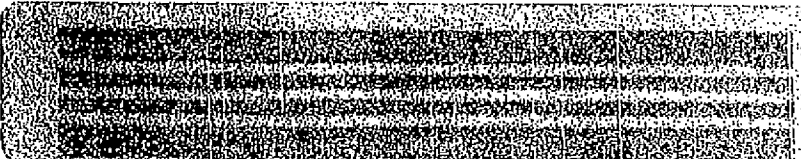
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Texas Secretary of State

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**FINANCING STATEMENT — FOLLOW INSTRUCTIONS CAREFULLY**

This Financing Statement is presented for filing pursuant to the Uniform Commercial Code and will remain effective, with certain exceptions, for 5 years from date of filing.

A. NAME & TEL. # OF CONTACT AT FILER (optional)	B. FILING OFFICE ACCT. # (optional)
C. RETURN COPY TO: (Name and Mailing Address)	
Gardere Wynne Sewell LLP 3000 Thanksgiving Tower 1601 Elm Street Dallas, Texas 75201 Attn: Brent ("Chip") Bundick	
D. OPTIONAL DESIGNATION (if applicable):	LESSOR/LESSEE
CONVICTION/CONSIGNEE	NON-UCC FILING

**1. DEBTOR'S EXACT FULL LEGAL NAME - Insert only one debtor name (1a or 1b)**

1a. ENTITY'S NAME Micro-ASI, Inc.			
OR	1b. INDIVIDUAL'S LAST NAME		
	FIRST NAME	MIDDLE NAME	SUFFIX
1c. MAILING ADDRESS 12655 N. Central Expressway, Suite 1000		CITY Dallas	STATE COUNTRY POSTAL CODE TX 75243
1d. S.S. OR TAX ID #	OPTIONAL ADDITIONAL INFO RE ENTITY/DEBTOR	1e. TYPE OF ENTITY	1f. ENTITY'S STATE OR COUNTRY OF ORGANIZATION
			1g. ENTITY'S ORGANIZATIONAL I.D.#, if any <input type="checkbox"/> NONE

**2. ADDITIONAL DEBTOR'S EXACT FULL LEGAL NAME - Insert only one debtor name (2a or 2b)**

2a. ENTITY'S NAME			
OR	2b. INDIVIDUAL'S LAST NAME		
	FIRST NAME	MIDDLE NAME	SUFFIX
2c. MAILING ADDRESS		CITY	STATE COUNTRY POSTAL CODE
2d. S.S. OR TAX ID #	OPTIONAL ADDITIONAL INFO RE ENTITY/DEBTOR	2e. TYPE OF ENTITY	2f. ENTITY'S STATE OR COUNTRY OF ORGANIZATION
			2g. ENTITY'S ORGANIZATIONAL I.D.#, if any <input type="checkbox"/> NONE

**3. SECURED PARTY'S (ORIGINAL &/P or ITS TOTAL ASSIGNEE) EXACT FULL LEGAL NAME - Insert only one secured party name (3a or 3b)**

3a. ENTITY'S NAME Eaglestone Investment Partners I, L.P.			
OR	3b. INDIVIDUAL'S LAST NAME		
	FIRST NAME	MIDDLE NAME	SUFFIX
3c. MAILING ADDRESS 400 Oceangate, Suite 1125		CITY Long Beach	STATE COUNTRY POSTAL CODE CA 90802

4. This FINANCING STATEMENT covers the following types of items of property:  
See Exhibit "A" attached hereto for collateral description.

5. CHECK <input type="checkbox"/> This FINANCING STATEMENT is signed by the Secured Party instead of the Debtor to perfect a security interest: (a) in collateral already subject to a security interest in another jurisdiction when it was brought into the state, or when the debtor's location was changed to this state, or (b) in accordance with other statutory provisions (additional data may be required)	7. If filed in Florida (check one) <input type="checkbox"/> Documentary stamp tax paid <input type="checkbox"/> Documentary stamp tax not applicable
6. REQUIRED SIGNATURE(S) <i>William G. Bundy</i> Micro-ASI, Inc.	8. <input type="checkbox"/> This FINANCING STATEMENT is to be filed (for record) in the REAL ESTATE RECORDS (Attach Addendum if applicable)
	9. Check to REQUEST SEARCH CERTIFICATE(S) on Debtor(s) (ADDITIONAL FEE) (optional) <input type="checkbox"/> All Debtors <input type="checkbox"/> Debtor 1 <input type="checkbox"/> Debtor 2

EXHIBIT A  
To Financing Statement  
(Micro-ASI, Inc. as Debtor)

Micro-ASI, Inc., a Texas corporation ("Debtor"), hereby assigns and grants to Eaglestone Investment Partners I, L.P., as Agent for lenders ("Secured Party"), pursuant to that certain Micro-ASI, Inc. Bridge Security Agreement dated April \_\_, 2001 (as amended from time to time, the "Security Agreement"), a continuing security interest in and to all right, title and interest of Debtor in the following property, whether now owned or existing or hereafter acquired or arising and regardless of where located (all being collectively referred to as the "Collateral"):

(a) Accounts. All of the Debtor's accounts, whether now existing or existing in the future, including, without limitation (i) all accounts receivable (whether or not specifically listed on schedules furnished to the Secured Party), including, without limitation, all accounts created by or arising from all of the Debtor's sales of goods or rendition of services made under any of the Debtor's trade names, or through any of its divisions, (ii) all unpaid seller's rights (including rescission, replevin, reclamation and stopping in transit) relating to the foregoing or arising therefrom, (iii) all rights to any goods represented by any of the foregoing, including returned or repossessed goods, (iv) all reserves and credit balances held by the Debtor with respect to any such accounts receivable or account debtors, (v) all letters of credit, guarantees or collateral for any of the foregoing and (vi) all insurance policies or rights relating to any of the foregoing (all of the foregoing property being hereinafter referred to as "Accounts");

(b) Inventory. All of the Debtor's presently existing or hereafter acquired inventory including, without limitation: (i) all raw materials, work in process, parts, components, assemblies, supplies and materials used or consumed in the Debtor's business, wherever located and whether in the possession of the Debtor or any other Person; (ii) all goods, wares and merchandise, finished or unfinished, held for sale or lease or leased or furnished or to be furnished under contracts of service, wherever located and whether in the possession of the Debtor or any other Person; and (iii) all goods returned to or repossessed by the Debtor (all of the foregoing property being hereinafter referred to as "Inventory");

(c) Intangibles. All of the Debtor's presently existing and future general intangibles and all other intangible or proprietary rights (including, specifically, any and all choses or things in action, patents, patent applications, trademarks, trademark applications, trade names, trade secrets, business names, service marks, licenses, copyrights, copyright applications, literary and intellectual property rights, computer programs, software, registration and franchise rights described in that certain Patent and Trademark Security Agreement of even date with, and among the parties to, the Security Agreement, as the same may be amended from time to time, and, in each case, all goodwill associated therewith), and all instruments, securities, credits, claims, demands, documents, letters of credit and letter of credit proceeds, chattel paper, documents of title, certificates of title, certificates of deposit, warehouse receipts, bills of lading, books and records, leases, deposit accounts, money, tax refunds, tax refund claims, rents, contract rights, and other rights (including all rights to the payment of money) (all of the foregoing property being hereinafter referred to as "Intangibles");

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(d) Equipment. All of the Debtor's presently existing and hereafter acquired equipment, including, without limitation, machinery, equipment, office equipment and supplies, computers (including mainframe processors and remote terminals) and related equipment, furniture, furnishings, fixtures, parts, tools, tooling, jigs, dies, manufacturing implements, motors, fork lifts, trucks, trailers, motor vehicles, and other equipment (all of the foregoing property being hereinafter referred to as "Equipment");

(e) Fixtures. All of the Debtor's fixtures which are now or hereafter located on or affixed to real property or used or useful in the operation or use of real property or any use or occupancy thereof or the construction of any improvements thereon, including, without limitation, any and all phone, heating, lighting, plumbing, ventilation, air conditioning, refrigerating, incinerating and/or compacting plants, systems, fixtures and equipment, elevators, escalators, stoves, ranges, vacuums, window washing and other cleaning and building service systems, call systems, sprinkler systems and other fire prevention and extinguishing apparatus and materials, motors, machinery, pipes, ducts, conduits, dynamos, engines, compressors, generators, boilers, stokers, furnaces, pumps, tanks, appliances and garbage and pest control systems (all of the foregoing property being hereinafter referred to as "Fixtures");

(f) After-acquired Collateral and Proceeds. The Collateral includes all right, title and interest of the Debtor in all items described in the preceding clauses (a) through (e), whether now owned or hereafter at any time acquired by the Debtor and wherever located, or as to which the Debtor may have any right or power, and includes all replacements, additions, accessions, improvements, substitutions, repairs, proceeds and products relating thereto or therefrom, and all documents, ledger sheets, computer programs, disc or tape files, printouts and files of the Debtor relating thereto. Proceeds hereunder include (i) whatever is now or hereafter received by the Debtor upon the sale, exchange, collection or other disposition of any item of Collateral, whether such proceeds constitute Inventory, Accounts, accounts receivable, Intangibles, instruments, securities (including, without limitation, United States of America Treasury Bills), credits, claims, demands, documents, letters of credit and letter of credit proceeds, chattel paper, documents of title, certificates of title, certificates of deposit, warehouse receipts, bills of lading, leases, deposit accounts, money, tax refund claims, contract rights, goods or Equipment, (ii) any such items which are now or hereafter acquired by the Debtor with any proceeds of Collateral hereunder and (iii) any insurance now or hereafter payable by reason of loss or damage to any item of Collateral or any proceeds thereof.

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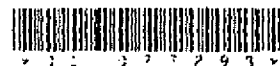
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Texas Secretary of State

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**FINANCING STATEMENT — FOLLOW INSTRUCTIONS CAREFULLY**

This Financing Statement is presented for filing pursuant to the Uniform Commercial Code and will remain effective, with certain exceptions, for 5 years from date of filing.

A. NAME & TEL. # OF CONTACT AT FILER (optional)		B. FILING OFFICE ACCT. # (optional)	
C. RETURN COPY TO: (Name and Mailing Address)			
Gardere Wynne Sewell LLP 3000 Thanksgiving Tower 1601 Elm Street Dallas, Texas 75201 Attn: Brent ("Chip") Buendick			
D. OPTIONAL DESIGNATION (if applicable):		LESSOR/LESSEE	CONSIGNEE/CONSIGNEE
		NON-UCC FILING	

**1. DEBTOR'S EXACT FULL LEGAL NAME - Insert only one debtor name (1a or 1b)**

1a. ENTITY'S NAME			
Micro-ASI, Inc.			
OR		1b. INDIVIDUAL'S LAST NAME	
		FIRST NAME	MIDDLE NAME
		SUFFIX	
1c. MAILING ADDRESS		CITY	STATE COUNTRY POSTAL CODE
12655 N. Central Expressway, Suite 1000		Dallas	TX TX 75243
1d. S.S. OR TAX ID.#	OPTIONAL ADDM. INFO RE ENTITY/DEBTOR	1e. TYPE OF ENTITY	1f. ENTITY'S STATE OR COUNTRY OF ORGANIZATION
			1g. ENTITY'S ORGANIZATIONAL I.D.#, if any
			<input type="checkbox"/> NONE

**2. ADDITIONAL DEBTOR'S EXACT FULL LEGAL NAME - Insert only one debtor name (2a or 2b)**

2a. ENTITY'S NAME			
OR			
2b. INDIVIDUAL'S LAST NAME		FIRST NAME	MIDDLE NAME
		SUFFIX	
2c. MAILING ADDRESS		CITY	STATE COUNTRY POSTAL CODE
2d. S.S. OR TAX ID.#	OPTIONAL ADDM. INFO RE ENTITY/DEBTOR	2e. TYPE OF ENTITY	2f. ENTITY'S STATE OR COUNTRY OF ORGANIZATION
			2g. ENTITY'S ORGANIZATIONAL I.D.#, if any
			<input type="checkbox"/> NONE

**3. SECURED PARTY'S (ORIGINAL S/P OR ITS TOTAL ASSIGNEE) EXACT FULL LEGAL NAME - Insert only one secured party name (3a or 3b)**

3a. ENTITY'S NAME			
Eaglestone Investment Partners I, L.P., as Agent			
OR		3b. INDIVIDUAL'S LAST NAME	
		FIRST NAME	MIDDLE NAME
		SUFFIX	
3c. MAILING ADDRESS		CITY	STATE COUNTRY POSTAL CODE
400 Occangate, Suite 1125		Long Beach	CA CA 90802

4. THE FINANCING STATEMENT covers the following type or items of property:  
See Exhibit "A" attached hereto for collateral description.

5. CHECK <input type="checkbox"/> THE FINANCING STATEMENT is stated by the Secured Party instead of the Debtor to perfect a security interest (a) in collateral already subject to a security interest in another jurisdiction when it was brought into this state, or when the debtor's location was changed to this state, or (b) in accordance with other statutory provisions (additional data may be required)		7. If filed in Florida (check one) <input type="checkbox"/> Documentary stamp tax paid <input type="checkbox"/> Documentary stamp tax not applicable	
6. REQUIRED SIGNATURE(S) <i>William A. Sewell</i> Micro-ASI, Inc.		8. <input type="checkbox"/> THE FINANCING STATEMENT is to be filed (for record or recorded) in the REAL ESTATE RECORDS. Attach Addendum (if applicable)	
		9. CHECK TO REQUEST SEARCH CERTIFICATE(S) on Debtor(s) (ADDITIONAL FEE) (optional) <input type="checkbox"/> All Debtors <input type="checkbox"/> Debtor 1 <input type="checkbox"/> Debtor 2	

EXHIBIT A  
To Financing Statement  
(Micro-ASI, Inc. as Debtor)

Micro-ASI, Inc., a Texas corporation ("Debtor"), hereby assigns and grants to Eaglestone Investment Partners I, L.P., as Agent for lenders ("Secured Party"), pursuant to that certain Micro-ASI, Inc. Bridge Security Agreement dated April \_\_, 2001 (as amended from time to time, the "Security Agreement"), a continuing security interest in and to all right, title and interest of Debtor in the following property, whether now owned or existing or hereafter acquired or arising and regardless of where located (all being collectively referred to as the "Collateral"):

(a) Accounts. All of the Debtor's accounts, whether now existing or existing in the future, including, without limitation (i) all accounts receivable (whether or not specifically listed on schedules furnished to the Secured Party), including, without limitation, all accounts created by or arising from all of the Debtor's sales of goods or rendition of services made under any of the Debtor's trade names, or through any of its divisions, (ii) all unpaid seller's rights (including rescission, replevin, reclamation and stopping in transit) relating to the foregoing or arising therefrom, (iii) all rights to any goods represented by any of the foregoing, including returned or repossessed goods, (iv) all reserves and credit balances held by the Debtor with respect to any such accounts receivable or account debtors, (v) all letters of credit, guarantees or collateral for any of the foregoing and (vi) all insurance policies or rights relating to any of the foregoing (all of the foregoing property being hereinafter referred to as "Accounts");

(b) Inventory. All of the Debtor's presently existing or hereafter acquired inventory including, without limitation: (i) all raw materials, work in process, parts, components, assemblies, supplies and materials used or consumed in the Debtor's business, wherever located and whether in the possession of the Debtor or any other Person; (ii) all goods, wares and merchandise, finished or unfinished, held for sale or lease or leased or furnished or to be furnished under contracts of service, wherever located and whether in the possession of the Debtor or any other Person; and (iii) all goods returned to or repossessed by the Debtor (all of the foregoing property being hereinafter referred to as "Inventory");

(c) Intangibles. All of the Debtor's presently existing and future general intangibles and all other intangible or proprietary rights (including, specifically, any and all choses or things in action, patents, patent applications, trademarks, trademark applications, trade names, trade secrets, business names, service marks, licenses, copyrights, copyright applications, literary and intellectual property rights, computer programs, software, registration and franchise rights described in that certain Patent and Trademark Security Agreement of even date with, and among the parties to, the Security Agreement, as the same may be amended from time to time, and, in each case, all goodwill associated therewith), and all instruments, securities, credits, claims, demands, documents, letters of credit and letter of credit proceeds, chattel paper, documents of title, certificates of title, certificates of deposit, warehouse receipts, bills of lading, books and records, leases, deposit accounts, money, tax refunds, tax refund claims, rents, contract rights, and other rights (including all rights to the payment of money) (all of the foregoing property being hereinafter referred to as "Intangibles");

(d) Equipment. All of the Debtor's presently existing and hereafter acquired equipment, including, without limitation, machinery, equipment, office equipment and supplies, computers (including mainframe processors and remote terminals) and related equipment, furniture, furnishings, fixtures, parts, tools, tooling, jigs, dies, manufacturing implements, motors, fork lifts, trucks, trailers, motor vehicles, and other equipment (all of the foregoing property being hereinafter referred to as "Equipment");

(e) Fixtures. All of the Debtor's fixtures which are now or hereafter located on or affixed to real property or used or useful in the operation or use of real property or any use or occupancy thereof or the construction of any improvements thereon, including, without limitation, any and all phone, heating, lighting, plumbing, ventilation, air conditioning, refrigerating, incinerating and/or compacting plants, systems, fixtures and equipment, elevators, escalators, stoves, ranges, vacuums, window washing and other cleaning and building service systems, call systems, sprinkler systems and other fire prevention and extinguishing apparatus and materials, motors, machinery, pipes, ducts, conduits, dynamos, engines, compressors, generators, boilers, stokers, furnaces, pumps, tanks, appliances and garbage and pest control systems (all of the foregoing property being hereinafter referred to as "Fixtures");

(f) After-acquired Collateral and Proceeds. The Collateral includes all right, title and interest of the Debtor in all items described in the preceding clauses (a) through (e), whether now owned or hereafter at any time acquired by the Debtor and wherever located, or as to which the Debtor may have any right or power, and includes all replacements, additions, accessions, improvements, substitutions, repairs, proceeds and products relating thereto or therefrom, and all documents, ledger sheets, computer programs, disc or tape files, printouts and files of the Debtor relating thereto. Proceeds hereunder include (i) whatever is now or hereafter received by the Debtor upon the sale, exchange, collection or other disposition of any item of Collateral, whether such proceeds constitute Inventory, Accounts, accounts receivable, Intangibles, instruments, securities (including, without limitation, United States of America Treasury Bills), credits, claims, demands, documents, letters of credit and letter of credit proceeds, chattel paper, documents of title, certificates of title, certificates of deposit, warehouse receipts, bills of lading, leases, deposit accounts, money, tax refund claims, contract rights, goods or Equipment, (ii) any such items which are now or hereafter acquired by the Debtor with any proceeds of Collateral hereunder and (iii) any insurance now or hereafter payable by reason of loss or damage to any item of Collateral or any proceeds thereof.



**PATENT AND TRADEMARK SECURITY AGREEMENT**  
**MICRO-ASI, INC.**

WHEREAS, Micro-Asi, Inc., a Texas corporation ("Grantor"), owns the trademarks, trademark registrations, and trademark applications listed on Schedule 1 annexed hereto, and owns the patents, patent applications and patent registrations listed on Schedule 2 annexed hereto; and

WHEREAS, Grantor and Eaglestone Investment Partners I, L.P. and certain other lenders to Grantor named or to be named therein (the "Lenders") are parties to that certain Micro-ASI Bridge Security Agreement, dated as of the date hereof (as same may be amended and in effect from time to time, the "Security Agreement"); and

WHEREAS, pursuant to the terms of the Security Agreement between Grantor and Lenders, Grantor has granted to Lenders a security interest in substantially all the assets of Grantor including all right, title and interest of Grantor in, to and under all now owned and hereafter acquired patents, patent applications, patent registrations, research, trademarks, trademark registrations, trademark applications and trademark licenses, together with the goodwill of the business symbolized by such property, and all proceeds thereof, to secure the payment of all amounts owing by Grantor to Lenders;

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Grantor does hereby grant to Lenders a continuing security interest in all of Grantor's right, title and interest in, to and under the following (all of the following items or types of property being herein collectively referred to as the "Patent or Trademark Collateral"), whether presently existing or hereafter created or acquired:

- (1) Each patent, patent registration and patent application, including without limitation, the patents, patent registrations (together with any reissues, continuations or extensions thereof) and patent applications referred to in Schedule 2 annexed hereto, and all the goodwill of the business connected with the use of such patents, patent registrations and patent applications;
- (2) Each patent license used in the business of the Grantor;
- (3) Each trademark, trademark registration and trademark application, including, without limitation, the trademarks, trademark registrations (together with any reissues, continuations or extensions thereof) and trademark applications referred to in Schedule 1 annexed hereto, and all of the goodwill of the business connected with the use of, and symbolized by, each trademark, trademark registration and trademark application;
- (4) Each trademark license and all of the goodwill of the business connected with the use of, and symbolized by, each trademark license; and

(5) All products and proceeds of the foregoing, including, without limitation, any claim by Grantor against third parties for past, present or future (a) infringement or dilution of any patent, patent registrations, trademark or trademark registration including, without limitation, those referred to in Schedule 1 or Schedule 2 annexed hereto, or (b) injury to the goodwill associated with any patent, patent registration, patent application, trademark, trademark registration or trademark licensed under any trademark license.

This security interest is granted in conjunction with the security interests granted to Lenders pursuant to the Security Agreement. Grantor hereby acknowledges and affirms that the rights and remedies of Lenders with respect to the security interest in the Patent or Trademark Collateral made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein, including the designation of Joseph S. Schuchert, III. or his designee as agent and attorney-in-fact to execute all documents and take all acts in furtherance of the rights of the Lenders under this Agreement and the Security Agreement. Capitalized terms used herein without definition shall have the meanings given such terms in the Security Agreement.

Grantor represents that the Patent or Trademark Collateral listed on Schedule 1 and Schedule 2 constitutes the material Patent or Trademark Collateral owned by Grantor as of the date hereof. If Grantor shall obtain or become entitled to the benefit of any new Patent or Trademark Collateral not listed on Schedule 1 or Schedule 2, Grantor shall give to the Lenders prompt written notice thereof. Grantor hereby authorizes the Lenders to modify this Patent and Trademark Security Agreement by amending Schedule 1 or Schedule 2 to include any such new Patent or Trademark Collateral and such new Patent or Trademark Collateral shall be deemed pledged to the Lenders and the Lenders shall have a security interest therein.

IN WITNESS WHEREOF, Grantor has caused this Patent and Trademark Security Agreement to be duly executed by its duly authorized officer thereunto as of 26<sup>th</sup> day of April, 2001.

Micro-Asi, Inc.

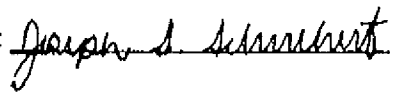
By: 

Name: CHARLES E. SMITH

Title: CHAIRMAN/CEO

Acknowledged:

EAGLESTONE INVESTMENT PARTNERS I, L.P.

By: 

**Patent Applications Filed**

Date: Jan 24, 2001

<u>Title</u>	<u>Inventor</u>	<u>Field of Invention</u>
Wafer Level Interposer	J Kline/C Smith	Wafer Interposer
Wafer Level Interposer - PCT Filing	J Kline/C Smith	Wafer Interposer
Wafer Level Interposer - Taiwan Filing	J Kline/C Smith	Wafer Interposer
Multichip Assembly & Method of Manufacture	J Kline	Process
Chip Assy with Integrated Power Distribution between a Wafer Interposer & and Integrated Circuit Chip	J Kline	Wafer Interposer
Pre-bumped Wafer Interposer Flip Chip Interconnect	J Kline	Wafer Interposer
Wafer Interposer Assy Apparatus & Method	J Kline	Wafer Interposer
System Method & Apparatus for Testing Multiple Chip Semiconductor Wafers	J Kline	Test
Method for Selecting Components for a Matched Set Using a Multi Wafer Interposer	J Kline	Wafer Interposer
Multi Wafer Interposer & Method for Testing Integrated Circuit Chips	J Kline	Wafer Interposer
Method for Selecting Components for a Matched Set Using Wafer Interposers	J Kline	Wafer Interposer
Three Dimensional Flip Chip Memory	J Pierce	Flip Chip
Wafer Interposer for Testing & Assy into Conv Pkg	J Pierce	Wafer Interposer
Method for Electrically Testing a Wafer Interposer Test Coverage Analysis Tool	A Fry	Test
Method for Constructing A Wafer Interposer onto a Wafer By Using B-Stage Laminates	J Pierce	Wafer Interposer
Method for Building a Wafer Interposer onto a Wafer Using Laser Techniques	J Pierce	Wafer Interposer
Fine Pitch Contact Device (CIP 09/193,830)	J Pierce	Known Good Die
Method for Selecting Components for a Matched Set From a Wafer Interposer Assembly	J Kline	Wafer Interposer
Interposer for Improved Handling of Semiconductor Wafers and Method of Use of Same	J Kline	Wafer Interposer

**Patent Applications In Process  
To Be Filed In 2001**

<u>Title</u>	<u>Inventor</u>	<u>Field of Invention</u>
Wafer Interposer Using Ceramic Substrate	J Pierce	Wafer Interposer
Wafer Interposer Using a Polyimide Substrate	J Pierce	Wafer Interposer
Temporary Interposer for Wafer Level Burn-In and Test	J Pierce	Wafer Interposer
Method for Constructing a Wafer Interposer Using Solder Columns	J Pierce	Wafer Interposer
Fine contact test points using polymer	A Fry	Test
Spin Coating Material Onto a Semiconductor Wafer To Form A Wafer Interposer	J Pierce	Wafer Interposer
Method for Constructing A Wafer Interposer By Using Wire Bonding	J Pierce	Wafer Interposer
Dual Flip Chip Layout Design Guide For Single Line Underfill Dispensing	B Bear	Flip Chip
Interconnect Method for HDI Substrate Load Board	A Fry	Known Good Die
Design layout improvement for surface mount components	T Briggs	Flip Chip
Xray Fiducials for Flip Chip components	T Briggs	Flip Chip
Smart transport pallet for production	T Briggs	Flip Chip
Improved method of machine placement during installation	T Briggs	Flip Chip
Improved Method of Ball Placement on Flip Chip Components	T Briggs	Flip Chip
Method of Preheating Selected Areas for Flip Chip Underfill	T Briggs	Flip Chip
SMT Assembly Verification Analysis Tool	A Fry	Flip Chip
Universal Vacuum Fixture	P Casey	Flip Chip
The Use of a Z-axis Conductor for Wafer Level Burn-in and Test	J Pierce	Wafer Interposer
Method of Protecting Heat Sensitive Parts During the Reflow Process	T Briggs	Flip Chip
Flux Calibration Tool	P Casey	Flip Chip
Flux Plate Temperature Control	P Casey	Flip Chip
Spot Healing for No-Flow Underfill	P Casey	Flip Chip
Sequential Healing to Achieve a Continuous Flow Underfilling Process	P Casey	Flip Chip

24-Jan-01