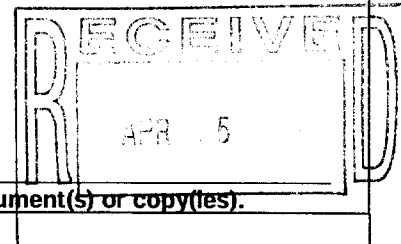


04-22-1999



101016338

RECORDATION FORM COVER SHEET
TRADEMARKS ONLY



MAILED 4-15-99

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

- New
- Resubmission (Non-Recordation)
Document ID #
- Correction of PTO Error
Reel # Frame #
- Corrective Document
Reel # Frame #

Conveyance Type

- Assignment License
- Security Agreement Nunc Pro Tunc Assignment
- Merger Effective Date
Month Day Year
- Change of Name
- Other

Conveying Party

Mark if additional names of conveying parties attached

Name Execution Date
Month Day Year

Formerly

- Individual General Partnership Limited Partnership Corporation Association
- Other
- Citizenship/State of Incorporation/Organization

Receiving Party

Mark if additional names of receiving parties attached

Name

DBA/AKA/TA

Composed of

Address (line 1)

Address (line 2)

Address (line 3)
City State/Country Zip Code

- Individual General Partnership Limited Partnership If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative should be attached. (Designation must be a separate document from Assignment.)
- Corporation Association
- Other
- Citizenship/State of Incorporation/Organization

04/21/1999 DNGUYEN 00000261 75291730

01 FC:481 40.00 OP

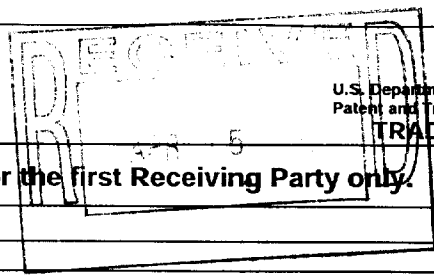
02 FC:482 100.00 OP

FOR OFFICE USE ONLY

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to:
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

TRADEMARK
REEL: 1886 FRAME: 0575



Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name Edward J. Lieberman

Address (line 1) Husch & Eppenberger, LLC

Address (line 2) 100 North Broadway

Address (line 3) Suite 1300

Address (line 4) St. Louis, Missouri 63102

Correspondent Name and Address

Area Code and Telephone Number 314/622-0673

Name Jennifer Jones

Address (line 1) Husch & Eppenberger, LLC

Address (line 2) 100 North Broadway

Address (line 3) Suite 1300

Address (line 4) St. Louis, Missouri 63102

Pages

Enter the total number of pages of the attached conveyance document including any attachments. #

Trademark Application Number(s) or Registration Number(s)

Mark if additional numbers attached

Enter either the Trademark Application Number or the Registration Number (DO NOT ENTER BOTH numbers for the same property).

Trademark Application Number(s)

Registration Number(s)

75291730 75527536
75285599
75536285

2210313

Number of Properties

Enter the total number of properties involved. # 5

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 140.00

Method of Payment: Enclosed Deposit Account

Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account.) Deposit Account Number: #

Authorization to charge additional fees: Yes No

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Jennifer Jones
Name of Person Signing

Jennifer Jones
Signature

4-13-99
Date Signed

PATENT, TRADEMARK AND LICENSE MORTGAGE

THIS PATENT, TRADEMARK AND LICENSE MORTGAGE (the "**Mortgage**") made as of the 10 day of March, 1999, by TSI TELSIS, INC., a Maryland corporation, having an address at 7100 Columbia Gateway Drive, Suite 150, Columbia, Maryland 21046 ("**Mortgagor**") in favor of THE CIT GROUP/CREDIT FINANCE, INC. with an office at 10 South LaSalle Street, Chicago, Illinois 60603 ("**Mortgagee**"):

WITNESSETH:

WHEREAS, Mortgagor and Mortgagee are parties to a certain Loan and Security Agreement (the "**Loan Agreement**") and other related loan documents of even date herewith (collectively, with the Loan Agreement, the "**Loan Agreements**"), which Loan Agreements provide (i) for Mortgagee, from time to time, to extend credit to or for the account of Mortgagor and (ii) for the grant by Mortgagor to Mortgagee of a security interest in certain of Mortgagor's assets, including, without limitation, its patents, patent applications, trademarks, trademark applications, trade names, service marks, service mark applications, goodwill and licenses;

NOW, THEREFORE, in consideration of the premises set forth herein and for other good and valuable consideration, receipt and sufficiency of which are hereby acknowledged, Mortgagor agrees as follows:

1. Incorporation of Loan Agreements. The Loan Agreements and the terms and provisions thereof are hereby incorporated herein in their entirety by this reference thereto. All terms capitalized but not otherwise defined herein shall have the same meanings herein as in the Loan Agreements.

2. Mortgage of Patents, Trademarks and Licenses. To secure the complete and timely satisfaction of all of Mortgagor's Obligations, Mortgagor hereby grants, bargains, assigns, mortgages, pledges, sells, creates a security interest in, transfers and conveys to Mortgagee, as and by way of a first mortgage and security interest having priority over all other security interests, with power of sale, to the extent permitted by law, upon the occurrence of an Event of Default, in all of Mortgagor's right, title and interest in and to all of its now existing and hereafter created or acquired:

(i) patents and patent applications, including, without limitation, the inventions and improvements described and claimed therein, and those patents listed on Exhibit A attached hereto and hereby made a part hereof, and (a) the reissues, divisions, continuations, renewals, extensions and continuations-in-part thereof, (b) all income, damages and payments now and hereafter due or payable under or with respect thereto, including, without limitation, damages and payments for past or future infringements thereof, (c) the right to sue for past, present and future infringements thereof, and (d) all rights corresponding thereto throughout the world, if any (all of the foregoing patents and

applications, together with the items described in clauses (a)-(d) of this subsection 2(i), are sometimes hereinafter referred to individually as a “**Patent**” and, collectively, as the “**Patents**”);

(ii) trademarks, trademark registrations, trademark applications, trade names and tradestyles, brand names, service marks, service mark registrations and service mark applications, including, without limitation, the trademarks, trade names, brand names, service marks and applications and registrations thereof listed on Exhibit B attached hereto and hereby made a part hereof, and (a) renewals or extensions, thereof, (b) all income, damages and payments now and hereafter due or payable with respect thereto, including, without limitation, damages and payments for past or future infringements thereof, (c) the right to sue for past, present and future infringements thereof, and (d) all rights corresponding thereto throughout the world (all of the foregoing trademarks, trade names and tradestyles, brand names, service marks and applications and registrations thereof, together with the items described in clauses (a)-(d) of this subsection 2(ii), are sometimes hereinafter referred to individually as a “**Trademark**” and, collectively, as the “**Trademarks**”);

(iii) license agreements (to the extent such license agreements may be assigned without violating the terms of any such license agreement) with respect to any of the Patents or the Trademarks or any other patent, trademark, service mark or any application or registration thereof or any other trade name or tradestyle between Mortgagor and any other party, whether Mortgagor is a licensor or licensee under any such license agreement, including, without limitation, the licenses listed on Exhibit C attached hereto and hereby made a part hereof (all of the foregoing license agreements and Mortgagor’s rights thereunder are referred to collectively as the “**Licenses**”); and

(iv) the goodwill of Mortgagor’s business connected with and symbolized by the Trademarks.

3. Warranties and Representations. Mortgagor warrants and represents to Mortgagee that:

(i) no Patent, Trademark or License has been adjudged invalid or unenforceable nor has any such Patent, Trademark or License been cancelled, in whole or in part and each such Patent, Trademark and License is presently subsisting;

(ii) each Patent, Trademark and License Material to the Mortgagor’s business is valid and enforceable except for the Patent Applications listed on Exhibit A and Trademark Application Serial #75-285,599;

(iii) Mortgagor is the sole and exclusive owner of the entire and unencumbered right, title and interest as they may appear in and to each Patent, Trademark and License, free and clear of any liens, charges and encumbrances, including without limitation licenses, shop rights and covenants by Mortgagor not to sue third persons;

(iv) Mortgagor has adopted, used and is currently using all of the Trademarks;

(v) Mortgagor has no notice of any suits or actions commenced or threatened with reference to the Patents, Trademarks or Licenses except for Trademark Application Serial #75-285,599; and

(vi) Mortgagor has the unqualified right to execute and deliver this Mortgage and perform its terms.

4. Restrictions on Future Agreements. Mortgagor agrees that until all Obligations shall have been satisfied in full and the Loan Agreements shall have been terminated, Mortgagor shall not, without the prior written consent of Mortgagee, sell or assign its interest in, or grant any license or sublicense under (other than in the ordinary course of business), the Patents, Trademarks or Licenses, or enter into any other agreement with respect to the Patents, Trademarks or Licenses, and Mortgagor further agrees that it shall not take any action or permit any action to be taken by others subject to its control, including licensees, or fail to take any action which would affect the validity of the rights transferred to Mortgagee under this Mortgage.

5. New Patents, Trademarks, and Licenses. Mortgagor represents and warrants that the Patents, Trademarks and Licenses listed on Exhibits A, B and C, respectively, constitute all of the Patents, Trademarks, and Licenses now owned by Mortgagor. If, before all Obligations shall have been satisfied in full or before the Loan Agreements have been terminated, Mortgagor shall (i) become aware of any existing Patents, Trademarks or Licenses of which Mortgagor has not previously informed Mortgagee, (ii) obtain rights to any new patentable inventions, Patents, Trademarks or Licenses, or (iii) become entitled to the benefit of any Patents, Trademarks or Licenses which benefit is not in existence on the date hereof, the provisions of this Mortgage above shall automatically apply thereto and Mortgagor shall give to Mortgagee prompt written notice thereof. Mortgagor hereby authorizes Mortgagee to modify this Mortgage by amending Exhibits A, B and C, as applicable, to include any such Patents, Trademarks and Licenses.

6. Royalties; Terms. The term of the mortgages granted herein shall extend until the earlier of (i) the expiration of each of the respective Patents, Trademarks and Licenses assigned hereunder, and (ii) the payment in full of all Obligations and the termination of the Loan Agreements. Mortgagor agrees that upon the occurrence of an Event of Default, the use by Mortgagee of all Patents, Trademarks and Licenses shall be worldwide, except as limited by their terms, and without any liability for royalties or other related charges from Mortgagee to Mortgagor.

7. Grant of License to Mortgagor. Unless and until an Event of Default shall have occurred, Mortgagee hereby grants back to Mortgagor the exclusive, nontransferable right and license to use the Trademarks in the ordinary course of its business, to exercise Mortgagee's rights under the Licenses, and to make, have made, use and sell the inventions disclosed and claimed in the Patents for Mortgagor's own benefit and account and for none other. Mortgagor shall use the Trademarks only on goods of at least as high quality as the goods on which Mortgagor or its predecessor used the goods prior to the date hereof. Mortgagor agrees not to sell or assign its

interest in, or grant any sublicense under (except in the ordinary course of business), the license granted to Mortgagor in this Section 7, without the prior written consent of Mortgagee. From and after the occurrence of an Event of Default, Mortgagor's license with respect to the Patents, Trademarks and Licenses set forth in this Section 7 shall terminate upon receipt by Mortgagor of written notice of such termination from Mortgagee, and Mortgagee shall have, in addition to all other rights and remedies given it by this Mortgage, those allowed by law and the rights and remedies of a secured party under the Uniform Commercial Code as enacted in Illinois.

8. Release of Mortgage. This Mortgage is made for collateral purposes only. Upon payment in full of all Obligations and termination of the Loan Agreements, Mortgagee shall execute and deliver to Mortgagor all deeds, assignments and other instruments, and shall take such other actions, as may be necessary or proper to re-vest in Mortgagor full title to the Patents, Trademarks and Licenses, subject to any disposition thereof which may have been made by Mortgagee pursuant to the Loan Agreements.

9. Expenses. All expenses incurred in connection with the performance of any of the agreements set forth herein shall be borne by Mortgagor. All fees, costs and expenses, of whatever kind or nature, including attorneys' and paralegals' fees and legal expenses, incurred by Mortgagee in connection with the filing or recording of any documents (including all taxes in connection therewith) in public offices, the payment or discharge of any taxes, counsel fees, maintenance fees, encumbrances or otherwise in protecting, maintaining or preserving the Patents, Trademarks and Licenses, or in defending or prosecuting any actions or proceedings arising out of or related to the Patents, Trademarks and Licenses, shall be borne by and paid by Mortgagor on demand by Mortgagee and until so paid shall be added to the principal amount of the Obligations and shall bear interest at the rate for Revolving Loans.

10. Mortgagee's Right to Sue. After an Event of Default, Mortgagee shall have the right, but shall in no way be obligated, to bring suit in its own name to enforce the Patents, Trademarks and Licenses, and, if Mortgagee shall commence any such suit, Mortgagor shall, at the request of Mortgagee, do any and all lawful acts and execute any and all proper documents required by Mortgagee in aid of such enforcement and Mortgagor shall promptly, upon demand, reimburse and indemnify Mortgagee for all costs and expenses incurred by Mortgagee in the exercise of its rights under this Section 10.

11. Waivers. No course of dealing between Mortgagor and Mortgagee, nor any failure to exercise, nor any delay in exercising, on the part of Mortgagee, any right, power or privilege hereunder or under the Loan Agreements shall operate as a waiver thereof; nor shall any single or partial exercise of any right, power or privilege hereunder or thereunder preclude any other or further exercise thereof or the exercise of any other right, power or privilege.

12. Severability. The provisions of this Mortgage are severable, and if any clause or provision shall be held invalid and unenforceable in whole or in part in any jurisdiction, then such invalidity or unenforceability shall affect only such clause or provision, or part thereof, in such jurisdiction, and shall not in any manner affect such clause or provision in any other jurisdiction, or any other clause or provision of this Mortgage in any jurisdiction.

13. Modification. This Mortgage cannot be altered, amended or modified in any way, except as specifically provided in Section 5 hereof or by a writing signed by the parties hereto.

14. Cumulative Remedies; Power of Attorney; Effect on Loan Agreements. All of Mortgagee's rights and remedies with respect to the Patents, Trademarks and Licenses, whether established hereby or by the Loan Agreements, or by any other agreements or by law shall be cumulative and may be exercised singularly or concurrently. Mortgagor hereby authorizes Mortgagee upon the occurrence of an Event of Default, to make, constitute and appoint any officer or agent of Mortgagee as Mortgagee may select, in its sole discretion, as Mortgagor's true and lawful attorney-in-fact, with power to (i) endorse Mortgagor's name on all applications, documents, papers and instruments necessary or desirable for Mortgagee in the use of the Patents, Trademarks and Licenses, or (ii) take any other actions with respect to the Patents, Trademarks and Licenses as Mortgagee deems to be in the best interest of Mortgagee, or (iii) grant or issue any exclusive or non-exclusive license under the Patents, Trademarks or Licenses to anyone, or (iv) assign, pledge, convey or otherwise transfer title in or dispose of the Patents, Trademarks or Licenses to anyone. Mortgagor hereby ratifies all that such attorney shall lawfully do or cause to be done by virtue hereof. This power of attorney shall be irrevocable until all Obligations shall have been paid in full and the Loan Agreements have been terminated. Mortgagor acknowledges and agrees that this Mortgage is not intended to limit or restrict in any way the rights and remedies of Mortgagee under the Loan Agreements but rather is intended to facilitate the exercise of such rights and remedies. Mortgagee shall have, in addition to all other rights and remedies given it by the terms of this Mortgage and the Loan Agreements, all rights and remedies allowed by law and the rights and remedies of a secured party under the Uniform Commercial Code as enacted in Illinois.

15. Binding Effect; Benefits. This Mortgage shall be binding upon Mortgagor and its respective successors and assigns, and shall inure to the benefit of Mortgagee, its successors, nominees and assigns.

16. Governing Law. This Mortgage shall be governed by and construed in accordance with the internal laws of the State of Illinois.

17. Headings. Paragraph headings used herein are for convenience only and shall not modify the provisions which they precede.

18. Further Assurances. Mortgagor agrees to execute and deliver such further agreements, instruments and documents, and to perform such further acts, as Mortgagee shall reasonably request from time to time in order to carry out the purpose of this Mortgage and agreements set forth herein.

19. Survival of Representations. All representations and warranties of Mortgagor contained in this Mortgage shall survive the execution and delivery of this Mortgage and shall be remade on the date of each borrowing under the Loan Agreements.

THIS INSTRUMENT PREPARED BY AND
AFTER FILING RETURN TO:

Edward J. Lieberman, Esq.
Husch & Eppenberger, LLC
100 North Broadway
Suite 1300
St. Louis, Missouri 63102

EXHIBIT A

PATENTS

<u>Description</u>	<u>Registration No.</u>	<u>Issue Date</u>
Programmable Circuit Assembly	PTO Serial No. 08/752,940	Pending (Filed 11/21/96)
Processing of Satellite Telemetry Signals	Continuation of Above	Pending (Filed 8/26/98)
Application & Method for Receiving Data	PTO Serial No. 08/960,836	Pending (Filed 10/30/97)
Application & Method for Transmitting Data	PTO Serial No. 08/960,960	Pending (Filed 10/30/97)
Application & Method for Constructing Data	PTO Serial No. 08/960,837	Pending (Filed 10/30/97)
System and Method for Programming Reconfigurations	PTO Serial No.09/013,186	Pending (Filed 1/26/98)
Apparatus and Method for Concurrent Processing	PTO Serial No. 08/995,216	Pending (Filed 12/19/97)

EXHIBIT B

TRADEMARKS

<u>Description</u>	<u>Registration No.</u>	<u>Issue Date</u>
Half Moon with Arrow Logo Design	Reg. No. 2,210,313	12/15/98
TSI TelSys (and design)	Serial No. 75/291730	Pending (Filed 5/14/97)
TSI TelSys (stylized)	Serial No. 75/285599	Pending (Filed 5/2/97)
HARDWARE BEAN	Serial No. 75/536285	Pending (Filed 8/13/98)
LAVALOGIC	Serial No. 75/527536	Pending (Filed 7/28/98)

EXHIBIT C

LICENSE AGREEMENTS

NONE