

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Teledyne Technologies Incorporated	11/29/1999

RECEIVING PARTY DATA

Name:	Teledyne Brown Engineering, Inc.
Street Address:	300 Sparkman Drive, N.W.
Internal Address:	Cummings Research Park
City:	Huntsville
State/Country:	ALABAMA
Postal Code:	35805-1912

PROPERTY NUMBERS Total: 12

Property Type	Number
Patent Number:	4821241
Patent Number:	4926396
Patent Number:	4926397
Patent Number:	5044204
Patent Number:	5090239
Patent Number:	5136549
Patent Number:	5209313
Patent Number:	5347871
Patent Number:	5601046
Patent Number:	5683115
Patent Number:	5692918
Patent Number:	D385476

CORRESPONDENCE DATA

PATENT

500067437

REEL: 016937 FRAME: 0123

CH \$480.00 4821241

Fax Number: (412)355-6501

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 412 355-6271

Email: patents@kling.com

Correspondent Name: Mark R. Leslie

Address Line 1: 535 Smithfield Street

Address Line 2: Henry W. Oliver Building

Address Line 4: Pittsburgh, PENNSYLVANIA 15222-2312

ATTORNEY DOCKET NUMBER:

TTI TO TBE VAR PATENTS

NAME OF SUBMITTER:

Mark R. Leslie

Total Attachments: 6

source=PI-#1492746-v1-Assignment_Teledyne_Brown_Engineering_(094260-1_12_23_2005_09_22_46_AM)#page1.tif

source=PI-#1492746-v1-Assignment_Teledyne_Brown_Engineering_(094260-1_12_23_2005_09_22_46_AM)#page2.tif

source=PI-#1492746-v1-Assignment_Teledyne_Brown_Engineering_(094260-1_12_23_2005_09_22_46_AM)#page3.tif

source=PI-#1492746-v1-Assignment_Teledyne_Brown_Engineering_(094260-1_12_23_2005_09_22_46_AM)#page4.tif

source=PI-#1492746-v1-Assignment_Teledyne_Brown_Engineering_(094260-1_12_23_2005_09_22_46_AM)#page5.tif

source=PI-#1492746-v1-Assignment_Teledyne_Brown_Engineering_(094260-1_12_23_2005_09_22_46_AM)#page6.tif

ASSIGNMENT

WHEREAS, TELEDYNE TECHNOLOGIES INCORPORATED ("Assignor"), a Delaware corporation having a mailing address of 2049 Century Park East, Los Angeles, California 90067 is the owner of the United States, foreign, and international Letters Patents and patent applications that are specifically identified and listed in the schedule attached hereto, incorporated herein, and made a part hereof (hereinafter collectively the "Patents and Applications"); and

WHEREAS, TELEDYNE BROWN ENGINEERING, INC. ("Assignee"), a Delaware corporation having a mailing address at Cummings Research Park, 300 Sparkman Drive, N.W., Huntsville, Alabama 35805-1912 is desirous of acquiring all of Assignor's right, title, and interest in and to the Patents and Applications;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which by Assignor is hereby acknowledged, and intending to be legally bound hereby, Assignor does hereby contribute, assign, transfer, and set over to Assignee Assignor's entire right, title, and interest in and to the Patents and Applications, together with all rights and privileges granted and secured thereby, including the full right to sue for past, present or future infringement of any of the Patents and Applications, these rights to be held and enjoyed by the Assignor had this assignment not been made. And for the consideration aforesaid, Assignor agrees that it will, upon request, and at Assignee's sole expense and at no expense to Assignor, execute additional lawful papers and generally do other lawful acts reasonable and necessary to record this Assignment.

IN WITNESS WHEREOF, Assignor has caused this instrument to be signed by a duly authorized corporate officer effective as of the 29TH day of November, 1999.

TELEDYNE TECHNOLOGIES INCORPORATED

By: Robert Mehrabian

Name: Robert Mehrabian

Title: President and Chief Executive Officer

(SEAL)

STATE OF _____

ss:

COUNTY OF _____

The foregoing instrument was acknowledged before me at _____, _____, this
____ day of _____, 1999, by _____, the _____ of Teledyne
Technologies, Inc., a Delaware corporation, on behalf of the corporation.

My commission expires: _____

Notary Public

(Notarial Seal)

Query2

11/22/99

CaseNumber	Client	Owner	Title	ApplNumber	FileDate	PatNumber	IssDate
045669	TBE	TDI	FERRULE	046669	29-Oct-1995	DE 385476	28-Oct-1997
289202	TBE	TDI	RUPTURE VESSEL WITH AUXILIARY PROCESSING VESSEL	289202	12-Aug-1994	5664610	09-Sep-1997
34673	TBE	TDI	AERIAL GUNNERY TARGET SYSTEM	194429	10-Feb-1994	RE034873	14-Mar-1995
401469	TBE	TDI	ABNORMALITY DETECTION SUPPRESSION SYSTEM FOR A VALV	401469	09-Mar-1995	5616829	01-Apr-1997
4186325	TBE	TDI	CABLE SUPPORTED PIEZOELECTRIC BENDER INTRUSION DETE	935043	18-Aug-1978	4186325	29-Jan-1980
4188612	TBE	TDI	PIEZOELECTRIC SEISMOTMETER	901680	01-May-1978	4188612	12-Feb-1980
4197479	TBE	TDI	INTRUSION DETECTING SENSOR ASSEMBLY USING A PIEZOELE	950038	10-Oct-1978	4197479	08-Apr-1980
4245503	TBE	TDI	THERMAL FLOWMETER	069267	23-Aug-1979	4245503	20-Jan-1981
4270386	TBE	TDI	INDIRECTLY HEATED THERMAL FLOWMETER	069247	23-Aug-1979	4270386	02-Jun-1981
4296481	TBE	TDI	STREAMER BULKHEAD	104168	17-Dec-1978	4296481	20-Oct-1981
4312377	TBE	TDI	TUBULAR VALVE DEVICE AND METHOD OF ASSEMBLY	070690	29-Aug-1979	4312377	26-Jan-1982
4315431	TBE	TDI	ADJUSTABLE FLOW DIVIDER FOR MASS FLOWMETERS	195512	09-Oct-1980	4315431	16-Feb-1982
4336639	TBE	TDI	METHOD OF MAKING A SEISMIC APPARATUS	135476	31-Mar-1980	4336639	29-Jun-1982
4356423	TBE	TDI	PRESSURE SENSITIVE INTRUSION SENSING LINE	211003	28-Nov-1980	4356423	26-Oct-1982
4357952	TBE	TDI	TUBULAR VALVE DEVICE AND METHOD OF ASSEMBLY	316892	30-Oct-1981	4357952	09-Nov-1982
435957	TBE	TDI	TEMPERATURE MEASURING METHOD AND APPARATUS	184365	05-Sep-1980	4358957	16-Nov-1982
4473768	TBE	TDI	PIEZOELECTRIC FORCE-BALANCE ACCELEROMETER SYSTEM	537756	30-Sep-1983	4473768	25-Sep-1984
4490722	TBE	TDI	RADIO NAVIGATION SYSTEM	370070	20-Apr-1982	4490722	25-Dec-1984
4517664	TBE	TDI	SEISMIC APPARATUS	320417	12-Nov-1981	4517664	14-May-1985
4616320	TBE	TDI	SEISMIC STRONG-MOTION RECORDER	588633	12-Mar-1984	4616320	07-Oct-1986
4726315	TBE	TDI	APPARATUS FOR TOWING ARRAYS OF GEOPHYSICAL DEVICES	039152	16-Apr-1987	4726315	23-Feb-1988
4821241	TBE	TDI	NOISE-CANCELLING STREAMER CABLE	197228	23-May-1988	4821241	11-Apr-1989
4887397	TBE	TDI	FAST, ERECTABLE, EASILY TRANSPORTABLE STRUCTURE	259481	19-Oct-1986	4887397	19-Dec-1989
4898239	TBE	TDI	RETRIEVABLE BRIDGE PLUG	314388	23-Feb-1989	4898239	06-Feb-1990
4908801	TBE	TDI	REAL-TIME SIMULATION OF THE FAR-FIELD SIGNATURE OF A SE	358435	30-May-1989	4908801	13-Mar-1990
4923276	TBE	TDI	TAPERED OPTICAL FIBER TELESCOPE, TRACKING SYSTEM APP	3091675	13-Feb-1989	4923276	08-May-1990
4926396	TBE	TDI	HIGH PRESSURE TRANSDUCER	418574	10-Oct-1989	4926396	15-May-1990
4926397	TBE	TDI	DEPTH ALARM FOR A SEISMIC SENSOR	434338	13-Nov-1989	4926397	15-May-1990
5033956	TBE	TDI	SYSTEM FOR AND METHOD OF CONTROLLING FUEL FLOW TO A	454315	26-Dec-1989	5033956	23-Jul-1991
5044204	TBE	TDI	DEVICE WITH STRAIN GAGED THREADED PORTION	550113	09-Jul-1990	5044204	03-Sep-1991
5044888	TBE	TDI	VARIABLE SPEED PUMP CONTROL FOR MAINTAINING FLUID LEV	309702	10-Feb-1989	5044888	03-Sep-1991
5052222	TBE	TDI	MULTIPLE-UNIT WATER DEPTH SENSOR SYSTEM	609417	05-Nov-1980	5052222	01-Oct-1991
5090239	TBE	TDI	STRAIN SENSING VALVE	642929	18-Jan-1991	5090239	25-Feb-1992
5136549	TBE	TDI	MARINE HYDROPHONE	762337	19-Sep-1991	5136549	04-Aug-1992
5150295	TBE	TDI	COMPUTERIZED SYSTEM FOR JOINING INDIVIDUAL MAPS INTO	526144	22-May-1990	5150295	22-Sep-1992
5153772	TBE	TDI	BINARY OPTIC-CORRECTED MULTISTAGE IMAGING SYSTEM	07682234	09-Apr-1991	5153772	06-Oct-1992
5159396	TBE	TDI	LASER GUN AMMUNITION MEASUREMENT EQUIPMENT	667313	12-Mar-1991	5159396	27-Oct-1992
5165838	TBE	TDI	VEHICLE FOR TRANSPORTING LOADS	787078	04-Nov-1991	5165838	24-Nov-1992
5177317	TBE	TDI	CABLE CUTTER ASSEMBLY	818541	09-Jan-1992	5177317	05-Jan-1993
5194690	TBE	TDI	SHOCK COMPRESSION JET GUN	482498	21-Feb-1990	5194690	16-Mar-1993
5203199	TBE	TDI	CONTROLLED ACCELERATION PLATFORM	597716	12-Oct-1990	5203199	20-Apr-1993
5203537	TBE	TDI	PIEZOCERAMIC VALVE ACTUATOR SANDWICH ASSEMBLY AND V	848393	09-Mar-1992	5203537	20-Apr-1993
5209313	TBE	TDI	LIFT WEIGHING	676814	28-Mar-1991	5209313	11-May-1993

Page 1

PATENT

REEL: 016937 FRAME: 0128

11/22/99

Query2

CaseNumber	Client	Owner	Title	AppNumber	FileDate	PatNumber	IssDate
5228854	TBE	TDI	COMBAT TRAINING SYSTEM AND METHOD	915616	21-Jul-1992	5228854	20-Jul-1993
5237871	TBE	TDI	VIBRATION ATTENUATION ASSEMBLY WITH VENTING PASSAGE	889,966	29-May-1992	5,237,871	24-Aug-1993
5245626	TBE	TDI	MULTI-STABLE CAVITY PROCESSOR	678,706	01-Apr-1991	5,245,626	14-Sep-1993
5251222	TBE	TDI	ACTIVE MULTI-STAGE CAVITY SENSOR	943,071	02-Mar-1992	5,251,222	05-Oct-1993
5283050	TBE	TDI	FLUID HANDLING APPARATUS	937,371	31-Aug-1992	5283050	01-Feb-1994
5288461	TBE	TDI	FLUID TREATMENT SYSTEM	937,566	31-Aug-1992	5288461	22-Feb-1994
5301538	TBE	TDI	PROCESS AND APPARATUS FOR DISTRIBUTED WIDE RANGE LE	870939	20-Apr-1992	5301538	12-Apr-1994
5303633	TBE	TDI	SHOCK COMPRESSION JET GUN	000409	04-Jan-1993	5303633	19-Apr-1994
5303992	TBE	TDI	EXTENDABLE AND RETRACTABLE GROUND-ENGAGING PROJEC	922790	31-Jul-1992	5303992	19-Apr-1994
5317919	TBE	TDI	A PRECISION CAPACITOR SENSOR	899618	16-Jun-1992	5317919	07-Jun-1994
5345238	TBE	TDI	SATELLITE SIGNATURE SUPPRESSION SHIELD	494278	14-Mar-1990	5,345,238	06-Sep-1994
5347871	TBE	TDI	STRAIN SENSOR	891376	03-Feb-1992	5347871	20-Sep-1994
5377104	TBE	TDI	PASSIVE SEISMIC IMAGING FOR REAL TIME MANAGEMENT & VE	097376	23-Jul-1993	5377104	27-Dec-1994
5378155	TBE	TDI	COMBAT TRAINING SYSTEM AND METHOD INCLUDING JAMMING	993707	21-Dec-1992	5,378,155	03-Jan-1995
5496466	TBE	TDI	PORTABLE WATER PURIFICATION SYSTEM WITH DOUBLE PISTO	120400	14-Sep-1993	5496466	05-Mar-1996
5545379	TBE	TDI	CORONA DISCHARGE SYSTEM WITH INSULATED WIRE	016146	05-Feb-1993	5545379	13-Aug-1996
5545380	TBE	TDI	CORONA DISCHARGE SYSTEM WITH CONDUIT STRUCTURE	016145	05-Feb-1993	5545380	13-Aug-1996
5589066	TBE	TDI	PORTABLE WATER PURIFICATION SYSTEM	277316	22-Jul-1994	5589066	31-Dec-1996
5599023	TBE	TDI	PARTIALLY TRANSLUCENT MURAL DECOY	539057	04-Oct-1995	5599023	04-Feb-1997
5601046	TBE	TDI	MEANS AND METHOD FOR DYNAMICALLY MONITORING THE STR	617301	18-Mar-1996	5601046	11-Feb-1997
5683115	TBE	TDI	WEAK LINK FOR A SEISMIC STREAMER CABLE CONNECTOR MO	654,233	28-May-1996	5,683,115	04-Nov-1997
5829242	TBE	TDI	PROCESS FOR MAKING ROPE	08/870,978	06-Aug-1997	5,829,242	03-Nov-1998
593845	TBE	TDI	METHOD AND APPARATUS FOR MONITORING AND CONTROLLIN	593845	30-Jan-1996		
654234	TBE	TDI	TWO-PIECE UNIVERSAL CABLE-CONNECTOR ADAPTER	654234	28-May-1996	5692918	02-Dec-1997
TBE-1689	TBE	TDI	A PRESSURE SENSOR INCLUDING BOTH A PIRANI SENSOR AND	09/111,069	07-Jul-1998		
TBE-1715X	TBE	TDI	METHOD AND APPARATUS FOR REAL TIME DEFECT INSPECTION	08/382,526	02-Feb-1995	5,654,977	05-Aug-1997
TBE-1769X	TBE	TDI	THREE-DIMENSIONAL, KNITTED, MULTI-SPECTRAL ELECTRO-MA	08/598,622	05-Feb-1998		
TBE-1782X	TBE	TDI	NUCLEAR REACTOR, AND GENERATOR AND/OR PROPULSION S	09/105,042	26-Jun-1998		
TBE-1783X	TBE	TDI	INFRARED CAMOUFLAGE COVERING	900,428	18-Jun-1992	5,281,460	25-Jan-1994
TBE-1783X	TBE	TDI	INFRARED CAMOUFLAGE COVERING	08/655,037	29-May-1996		
TBE-1783X	TBE	TDI	INFRARED CAMOUFLAGE COVERING	9801840.1			
TBE-1783X	TBE	TDI	INFRARED CAMOUFLAGE COVERING	US97/09044	29-May-1997		
TBE-1783X	TBE	TDI	INFRARED CAMOUFLAGE COVERING	93923129.6			
TBE-1791X	TBE	TDI	INFRARED CAMOUFLAGE COVERING	09/012,722	23-Jan-1998		
TBE-1808X	TBE	TDI	TURBINE HEAD ASSEMBLY WITH INLET VALVE DRIVEN BY A FOR	07/980,954			
TBE-1849X	TBE	TDI	OPTICAL SYSTEM FOR LASER DIODE ARRAY	08/758,442		5,810,276	22-Sep-1998
TBE-1849X	TBE	TDI	GAS ANALYZER	74105106			
TBE-1882X	TBE	TDI	AERIAL GUNNERY TARGET	536112	13-Jan-1996	NI-37238	10-Feb-1990
TBE-1882X	TBE	TDI	AERIAL GUNNERY TARGET		08-Jun-1990	5,078,406	07-Jan-1992
TBE-1882X	TBE	TDI	AERIAL GUNNERY TARGET	343,438		2,031,521	18-Oct-1994
TBE-1882X	TBE	TDI	AERIAL GUNNERY TARGET	US90/02241	26-Apr-1989	5,026,073	25-Jun-1991
TBE-1882X	TBE	TDI	AERIAL GUNNERY TARGET		28-Apr-1990		
TBE-1887X	TBE	TDI	NEURAL PROCESSOR WITH HOLOGRAPHIC OPTICAL PATHS AN	631,104	28-Apr-1990	2562518	
					19-Dec-1990	5,132,813	21-Jul-1992

Page 2

Quary2

11/22/99

CaseNumber	Client	Owner	Title	AppiNumber	FileDate	PatNumber	IssDate
TBE-1887X	TBE	TDI	NEURAL PROCESSOR WITH HOLOGRAPHIC OPTICAL PATHS AN	365441	13-Jun-1989	5,004,309	02-Apr-1991
TBE-1897X	TBE	TDI	INTEGRATED MOLDED PLASTIC OPTICAL SYSTEM FOR A LASER	60/030,395	05-Nov-1996		
TBE-1912X	TBE	TDI	AERIAL GUNNERY TARGET SYSTEM	686345	16-Apr-1991	5,102,145	07-Apr-1992
TBE-1912X	TBE	TDI	AERIAL GUNNERY TARGET SYSTEM	194129	10-Feb-1994	RE34873	14-Mar-1995
TBE-1912X	TBE	TDI	AERIAL GUNNERY TARGET SYSTEM	US92/02935	08-Apr-1992		
TBE-1930X	TBE	TDI	AIR-DRIVEN, TURBINE TOW REEL MACHINE CONTROLLED ACCO	627,330	14-Dec-1990	5,083,723	28-Jan-1992
TBE-1931X	TBE	TDI	METHOD AND APPARATUS FOR MITIGATING SPACE DEBRIS	606,897	31-Oct-1990	5,082,211	21-Jan-1992
TBE-1932X	TBE	TDI	OPTICAL INTERCONNECTOR AND HIGHLY INTERCONNECTED, L	431,899	06-Nov-1989	5,068,801	26-Nov-1991
TBE-1932X	TBE	TDI	OPTICAL INTERCONNECTOR AND HIGHLY INTERCONNECTED, L	735,272	24-Jul-1991	5,235,440	10-Aug-1993
TBE-1951	TBE	TDI	DISPOSABLE/DEPLOYABLE GLOVEBOX (DGB)				
TBE-1952X	TBE	TDI	INFRARED TARGET USING GAS PERMEABLE MATERIAL	667210	11-Mar-1991	5,110,137	05-May-1992
TBE-1953X	TBE	TDI	VIBRATION ATTENUATION ASSEMBLY	597,717	12-Oct-1990	5,117,895	02-Jun-1992
TBE-1954X	TBE	TDI	VEHICLE FOR TRANSPORTING LOADS	578,507	06-Sep-1990	5,110,153	05-May-1992
TBE-1955X	TBE	TDI	SURVEILLANCE BALLOON	464,388	12-Jan-1990	5,115,997	26-May-1992
TBE-1956X	TBE	TDI	INTERFACE FOR CARGO LOADERS	07/594,146	10-Oct-1990	5,118,241	02-Jun-1992
TBE-1956X	TBE	TDI	INTERFACE FOR CARGO LOADERS	07/770,114	02-Oct-1991	5,219,259	15-Jun-1993
TBE-1956X	TBE	TDI	INTERFACE FOR CARGO LOADERS	08/034,769	19-Mar-1993	5,269,941	14-Dec-1993
TBE-1957X	TBE	TDI	AIRBORNE LASER/ELECTRONIC WARFARE TRAINING SYSTEM	869773	02-Jun-1986	4729737	08-Mar-1988

Page 3