

## PATENT ASSIGNMENT

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	RELEASE BY SECURED PARTY
CONVEYING PARTY DATA	
Name	Execution Date
WELLS FARGO BANK, N.A., as Successor in Interest to Wachovia Bank, N.A.	11/21/2012
RECEIVING PARTY DATA	
Name:	CERADYNE, INC.
Street Address:	3169 Redhill Avenue
City:	Costa Mesa
State/Country:	CALIFORNIA
Postal Code:	92626
Name:	CERADYNE ESK, LLC
Street Address:	3169 Redhill Ave.
City:	Costa Mesa
State/Country:	CALIFORNIA
Postal Code:	92626
Name:	ESK CERAMICS GMBH & Co. KG
Street Address:	Max-Scheidhauf-Strasse 25
City:	Kempten
State/Country:	GERMANY
Postal Code:	87437
PROPERTY NUMBERS Total: 12	
Property Type	Number
Patent Number:	5340107
Patent Number:	5358402
Patent Number:	5543370
Patent Number:	5939185
Patent Number:	6004895

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Patent Number:	6347905
Patent Number:	6531423
Patent Number:	6645572
Patent Number:	6745963
Patent Number:	6783442
Patent Number:	6899920
Patent Number:	6532857

# CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	013511-0151
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NAME OF SUBMITTER:	Arnold V. Mina
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	This document serves as an Oath/Declaration (37 CFR 1.63).
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# Total Attachments: 7

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## RELEASE OF SECURITY INTEREST IN INTELLECTUAL PROPERTY

**WHEREAS**, Ceradyne, Inc., Ceradyne ESK, LLC and ESK Ceramics GmbH & Co. KG (“**Grantors**”) entered into a Credit Agreement dated August 18, 2004 (the “**Credit Agreement**”), with certain Lender Parties (as defined in the Credit Agreement) and Wachovia Bank, National Association (“**Wachovia**”), as collateral agent for the Lender Parties (the “**Collateral Agent**”);

**WHEREAS**, pursuant to the terms of the Credit Agreement, the Grantors granted a security interest in and to certain Patents and Patent Applications, Trademark Registrations and Applications, Copyrights, and other related rights of Grantors (the “**Collateral**”) to Wachovia, as Collateral Agent for the Lender Parties, as more fully set forth in the Intellectual Property Security Agreement, dated as of August 18, 2004 (the “**Intellectual Property Security Agreement**”), between the Grantors and the Collateral Agent, for the benefit of the Lender Parties (defined in the Intellectual Property Security Agreement as the “**Secured Parties**”);

**WHEREAS**, an executed copy of the Intellectual Property Security Agreement was recorded in the United States Patent and Trademark Office (“**USPTO**”) on September 3, 2004 as Reel 2929, Frame 0218 for the trademarks, and as Reel 15074, Frame 0158 for the patents;

**WHEREAS**, on or about December 2005 (the “**Repayment Date**”), the Grantors fully repaid to the Lender Parties all sums due pursuant to the Credit Agreement and the Advances and Letters of Credit issued thereunder (as defined in the Credit Agreement) but a release of the Intellectual Property Security Agreement on record with the USPTO was not filed at such time;

**WHEREAS**, subsequent to the Repayment Date and prior to the date hereof, Wells Fargo & Company, parent of Wells Fargo Bank, National Association (“**Wells Fargo Bank**”), acquired by merger Wachovia Corporation, parent of Collateral Agent, on or about December 31, 2008, whereby Wells Fargo Bank became successor-in-interest to the rights and obligations of the Collateral Agent for the Secured Parties (the “**Successor Collateral Agent**”) with respect to the Grantors and the Collateral secured by the Intellectual Property Security Agreement;

**WHEREAS**, Grantors have prepared this Release of Security Interest in Intellectual Property and have subsequently requested that the Successor Collateral Agent, on behalf of the Secured Parties, release and reassign the interests in the Collateral more fully identified in Schedule A, annexed hereto and made a part hereof;

**NOW, THEREFORE**, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Successor Collateral Agent and the Secured Parties, hereby:

1. release and reassign to Grantors any and all liens, security interests, rights, title and interest of Secured Parties pursuant to the Intellectual Property Security Agreement in the Collateral more fully identified in Schedule A annexed hereto and made a part hereof, without recourse or representation or warranty, express or implied, of any kind;

2. agree that any power of attorney or similar rights granted by Grantors to Secured Parties pursuant to or in connection with the Intellectual Property Security Agreement is terminated; and;

3. authorize and request that the Patent and Trademark Office note and record the existence of the release hereby given.

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IN WITNESS WHEREOF, Successor Collateral Agent, on behalf of the Secured Parties, has caused this Release of Security Interest in Intellectual Property to be executed by its duly authorized officer this 21st day of November, 2012.

WELLS FARGO BANK, N.A., as Successor  
Collateral Agent (Successor-in-Interest to Wachovia  
Bank, National Association)

By: 

Name: LISA CUPPETT

Title: SENIOR VICE PRESIDENT

# SCHEDULE A

## U.S. Trademarks

Trademark	Application No.	Filing Date	Registration No.	Registration Date
BORONID	79/005,337	April 8, 2004	3,051,070	January 24, 2006
CD (stylized)	78/254,072	May 24, 2003	3,279,279	August 14, 2007
CERADYNE	78/254,047	May 23, 2003	3,017,228	November 22, 2005
CERALLOY	78/254,055	May 23, 2003	3,017,229	November 22, 2005
DEFENDER	76/024,700	April 14, 2000	2,583,321	June 18, 2002
DIMET	75/538,448	August 18, 1998	2,361,377	June 27, 2000
EKAGRIP (stylized)	75/861,449	December 1, 1999	2,561,031	April 16, 2002
EKAMOLD (stylized)	75/649,251	February 26, 1999	2,397,089	October 24, 2000
EKASIC	73/569,008	November 18, 1985	1,432,606	March 17, 1987
EKATHERM	75/649,252	February 26, 1999	2,399,244	October 31, 2000
ESK (stylized)	75/384,535	November 4, 1997	2,418,536	January 9, 2001
ESK (design)	73/218,277	June 4, 1979	1,217,140	November 23, 1982
LASERMET	76/370,196	February 13, 2002	2,723,538	June 10, 2003
MYCRONID	79/004,611	April 8, 2004	3,051,022	January 24, 2006
MYCROSINT	79/006,642	February 13, 2004	3,060,518	February 21, 2006
NEEDLELOK	76/094,336	July 24, 2000	2,533,815	January 29, 2002
NETSHAPE	73/710,071	Mach 8, 1988	1,547,830	July 18, 1989
SINOVA	79/012,218	July 22, 2004	3,139,301	September 5, 2006
SINTERMICS	79/000,992	January 8, 2004	3,158,844	October 17, 2006
TETRABOR	72/079,635	August 17, 1959	0720925	September 5, 1961
TETRABOR	72/079,637	August 17, 1959	0720828	September 5, 1961
TETRABOR	72/079,638	August 17, 1959	0720869	September 5, 1961
TETRABOR	72/079,636	August 17, 1959	0720820	September 5, 1961
THERMO	73/258,222	April 15, 1980	1,256,111	November 1, 1983
THERMO	73,258,511	April 17, 1980	1,298,058	September 25, 1984
THERMO-SIL	78/254,119	May 24, 2003	2,838,785	May 4, 2004
TRANSTAR	73/765,671	November 25, 1988	1,547,944	July 18, 1989
TRIMET	75/538,447	August 18, 1998	2,427,820	February 13, 2001

## U.S. Patents

<b>Title</b>	<b>Appl. Serial No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>
PROCESS FOR PRODUCING A CERAMIC EVAPORATION BOAT HAVING AN IMPROVED INITIAL WETTING PERFORMANCE	09/946,704	09/05/2001	6,645,572	11/11/2003
CONNECTING ELEMENT FOR THE FRICTIONAL CONNECTION OF COMPONENTS	09/417,165	10/12/1999	6,347,905	02/19/2002
LIQUID-PHASE-SINTERED SIC SHAPED BODIES WITH IMPROVED FRACTURE TOUGHNESS AND A HIGH ELECTRIC RESISTANCE	09/612,168	07/08/2000	6,531,423	03/11/2003
NICKEL-DIAMOND-COATED SAW WIRE WITH IMPROVED ANCHORING OF THE DIAMOND PARTICLES	10/275,321	05/03/2001	6,783,442	08/31/2004
PROCESS FOR RECYCLING SIDE DAMS FOR THE CONTINUOUS CASTING OF THIN STEEL STRIP	10/021,518	10/30/2001	6,745,963	06/08/2004
METHOD FOR THE BATCH COATING OF SAW WIRE	10/463,738	06/17/2003	6,899,920	05/31/2005
CERAMIC ORTHODONTIC BRACKET WITH ARCHWIRE SLOT LINER	08/142,836	10/25/1993	5,358,402	10/25/1994
CERAMIC ORTHODONTIC BRACKET	07/248,297	09/21/1988	4,954,080	09/04/1990
PIGMENTED SILICON NITRIDE	09/038,746	03/11/1998	6,004,895	12/21/1999

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<b>Title</b>	<b>Appl. Serial No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>
MONOLITHIC CERAMIC GOLF CLUB PUTTER HEAD AND METHOD OF MANUFACTURE THEREOF	08/034,476	03/19/1993	5,340,107	08/23/1994
IMPROVED CERAMIC ARRAY ARMOR	09/569,424	0/12/2000	6,532,857	03/18/2003
IMPROVED DISPENSER CATHODE AND METHOD OF MANUFACTURE THEREFOR	07/154,743	02/10/1988	4,823,044	04/18/1989
HIGH THERMAL EFFICIENCY DISPENSER CATHODE AND METHOD OF MANUFACTURE THEREFOR	07/742,363	08/08/1991	5,218,263	06/08/1993
CERAMIC SUPPORT ARM FOR MOVABLY POSITIONING TRANSDUCERS	07/160,883	02/26/1988	4,949,194	08/14/1990
PRESSURE-SINTERED POLYCRYSTALLINE MIXED MATERIALS WITH A BASE OF HEXAGONAL BORON NITRIDE, OXIDES AND CARBIDES	07/345,201	04/28/1989	4,885,264	12/05/1989
COMPOSITE MATERIALS BASED ON BORON CARBIDE, TITANIUM DIBORIDE AND ELEMENTAL CARBON AND PROCESSES FOR THE PREPARATION OF SAME	08/248,388	05/24/1994	5,543,370	08/06/1996
BEARING MATERIAL OF SILICON CARBIDE	08/959,972	10/29/1997	5,939,185	08/17/1999

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<b>Title</b>	<b>Appl. Serial No.</b>	<b>Filing Date</b>	<b>Patent No.</b>	<b>Issue Date</b>
GREASE AND GREASE-SEALED BEARING	10/252,775	09/23/2002	7,053,028	05/30/2006

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**RECORDED: 11/27/2012**

**PATENT**  
**REEL: 029358 FRAME: 0677**