

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	Patent Security Agreement	
CONVEYING PARTY DATA		
Name		Execution Date
GBC Metals, LLC		06/01/2012
RECEIVING PARTY DATA		
Name:	Wells Fargo Bank, National Association	
Street Address:	625 Marquette Ave. 11th Floor, MAC N9311-110	
City:	Minneapolis	
State/Country:	MINNESOTA	
Postal Code:	55479	
PROPERTY NUMBERS Total: 66		
Property Type	Number	
Patent Number:	6632300	
Patent Number:	6569543	
Patent Number:	6893742	
Patent Number:	6837980	
Patent Number:	6689268	
Patent Number:	6471792	
Patent Number:	6432556	
Patent Number:	6348544	
Patent Number:	6346335	
Patent Number:	6251199	
Patent Number:	6194513	
Patent Number:	6183886	
Patent Number:	6164370	
Patent Number:	6132528	
Patent Number:	6093265	

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Patent Number:	6083633
Patent Number:	6067712
Patent Number:	5980656
Patent Number:	5916695
Patent Number:	5494209
Patent Number:	5882442
Patent Number:	5868877
Patent Number:	5489373
Patent Number:	5486244
Patent Number:	5853505
Patent Number:	5800930
Patent Number:	5780172
Patent Number:	5730189
Patent Number:	6797764
Patent Number:	5688356
Patent Number:	5681662
Patent Number:	5637160
Patent Number:	5601665
Patent Number:	5573845
Patent Number:	5565045
Patent Number:	5449951
Patent Number:	5540378
Patent Number:	5306465
Patent Number:	5893953
Patent Number:	6099663
Patent Number:	6695934
Patent Number:	6679956
Patent Number:	6749699
Patent Number:	6905782
Patent Number:	6852427
Patent Number:	6241831
Patent Number:	6689232
Patent Number:	5865910
Patent Number:	5820701
Patent Number:	6436206

	5916386
Patent Number:	5985055
Patent Number:	7182823
Patent Number:	7749611
Patent Number:	6136460
Patent Number:	7391116
Patent Number:	7132158
Patent Number:	5381847
Patent Number:	7731831
Patent Number:	5472796
Patent Number:	7808109
Application Number:	11246966
Application Number:	11588111
Application Number:	12249530
Application Number:	12336731
Application Number:	12943196

**CORRESPONDENCE DATA**

Fax Number: (212)492-0603  
 Email: lsilber@paulweiss.com, aashville@paulweiss.com  
*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.*  
 Correspondent Name: Lindsay N. Silber  
 Address Line 1: 1285 Avenue of the Americas  
 Address Line 4: New York, NEW YORK 10019-6064

ATTORNEY DOCKET NUMBER:	18725-008
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NAME OF SUBMITTER:	Lindsay N. Silber
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Total Attachments: 13  
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## PATENT SECURITY AGREEMENT

This **PATENT SECURITY AGREEMENT**, dated as of June 1, 2012 (as it may be amended, restated, supplemented or otherwise modified from time to time, this “**Agreement**”), is made by **GBC METALS, LLC** (the “**Grantor**”) in favor of **WELLS FARGO BANK, NATIONAL ASSOCIATION**, as collateral agent for the Secured Parties (in such capacity, together with its successors and permitted assigns, the “**Notes Collateral Agent**”).

**WHEREAS**, the Grantor is party to a Pledge and Security Agreement dated as of June 1, 2012 (the “**Pledge and Security Agreement**”) between the Grantor and the other grantors party thereto and the Notes Collateral Agent pursuant to which the Grantor granted a security interest to the Notes Collateral Agent in the Patent Collateral (as defined below) and is required to execute and deliver this Agreement.

**NOW, THEREFORE**, in consideration of the foregoing and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the Grantor hereby agrees with the Notes Collateral Agent as follows:

### SECTION. 1. Defined Terms

Unless otherwise defined herein, terms defined in the Pledge and Security Agreement and used herein have the meaning given to them in the Pledge and Security Agreement.

### SECTION. 2. Grant of Security Interest

The Grantor hereby grants to the Notes Collateral Agent, for the benefit of the Secured Parties, a security interest in and continuing lien on all of the Grantor’s right, title and interest in, to and under the following, in each case whether now owned or existing or hereafter acquired, developed, created or arising and wherever located (collectively, the “**Patent Collateral**”):

all United States and foreign patents and certificates of invention, or similar industrial property rights, and applications for any of the foregoing, including, but not limited to: (i) each patent and patent application listed or required to be listed in Schedule A attached hereto, (ii) all reissues, divisions, continuations, continuations-in-part, extensions, renewals, and reexaminations thereof, (iii) all patentable inventions and improvements thereto, (iv) the right to sue or otherwise recover for any past, present and future infringement or other violation thereof, (v) all Proceeds of the foregoing, including, without limitation, license fees, royalties, income, payments, claims, damages, and proceeds of suit now or hereafter due and/or payable with respect thereto, and (vi) all other rights of any kind accruing thereunder or pertaining thereto throughout the world.

### SECTION. 3. Security Agreement

The security interest granted pursuant to this Agreement is granted in conjunction with the security interest granted to the Notes Collateral Agent for the Secured Parties pursuant to the Pledge and Security Agreement, and the Grantor hereby acknowledges and affirms that the rights and remedies of the Notes Collateral Agent with respect to the security interest in the Patent Collateral made and granted hereby are more fully set forth in the Pledge and Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein. In the event that any provision of this Agreement is deemed to conflict with the Pledge and Security Agreement, the provisions of the Pledge and Security Agreement shall control.

**SECTION. 4. Governing Law**

THIS AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES HEREUNDER AND ALL CLAIMS AND CONTROVERSIES ARISING OUT OF THE SUBJECT MATTER HEREOF WHETHER SOUNDING IN CONTRACT LAW, TORT LAW OR OTHERWISE SHALL BE GOVERNED BY, AND SHALL BE CONSTRUED AND ENFORCED IN ACCORDANCE WITH, THE LAWS OF THE STATE OF NEW YORK, WITHOUT REGARD TO CONFLICTS OF LAW PROVISIONS THAT WOULD RESULT IN THE APPLICATION OF ANY OTHER LAW (OTHER THAN ANY MANDATORY PROVISIONS OF LAW RELATING TO THE LAW GOVERNING PERFECTION AND THE EFFECT OF PERFECTION OF THE SECURITY INTEREST).

**SECTION. 5. Counterparts**

This Agreement may be executed in one or more counterparts and by different parties hereto in separate counterparts, each of which when so executed and delivered shall be deemed an original, but all such counterparts together shall constitute but one and the same instrument.

[Remainder of page intentionally left blank]

IN WITNESS WHEREOF, the Grantor has caused this Agreement to be executed and delivered by its duly authorized officer as of the date first set forth above.

GBC METALS, LLC

By:   
Name: Robert Micchelli  
Title: Chief Financial Officer

[Signature Page to GBC Metals, LLC Patent Security Agreement]

PATENT  
REEL: 028300 FRAME: 0840

Accepted and Agreed:

**WELLS FARGO BANK, NATIONAL ASSOCIATION,**  
as Notes Collateral Agent

By:   
Name: **Richard Prokosch**  
Title: **Vice President**

[Signature Page to GBC Metals, LLC Patent Security Agreement]

**PATENT**  
**REEL: 028300 FRAME: 0841**



**SCHEDULE A**  
to  
**PATENT SECURITY AGREEMENT**

<b>Country</b> <b>Case Type</b>	<b>Application</b> <b>No.</b> <b>Filing Date</b>	<b>Publication</b> <b>No.</b> <b>Publication</b> <b>Date</b>	<b>Patent</b> <b>No.</b> <b>Patent</b> <b>Date</b>	<b>Status</b> <b>Expiration</b>
United States of America Utility Patent Filing	09/879616 12-Jun-2001	2002- 0044881 18-Apr- 2002	6632300 14-Oct- 2003	Granted 12-Jun- 2021
<b>Title: Copper Alloy Having Improved Stress Relaxation Resistance</b>				
United States of America Priority Application	09/784547 15-Feb- 2001	2002- 0160219 31-Oct- 2002	6569543 27-May- 2003	Granted 09-Jun- 2021
<b>Title: Copper Foil With Low Profile Bond Enhancement</b>				
United States of America Continuation In Part	09/948166 06-Sep- 2001	2002- 0192486 19-Dec- 2002	6893742 17-May- 2005	Granted 15-Feb- 2021
<b>Title: Copper Foil With Low Profile Bond</b>				
United States of America Utility Patent Filing	10/017863 12-Dec- 2001	2002- 0112965 22-Aug- 2002	6837980 04-Jan- 2005	Granted 12-Dec- 2021
<b>Title: Bond Enhancement Anti-tarnish Coatings</b>				
United States of America Divisional Filing	09/842454 26-Apr- 2001	2001- 0027922 11-Oct- 2001	6689268 10-Feb- 2004	Granted 10-Mar- 2020
<b>Title: Copper Foil Composite Including A Release Layer</b>				
United States of America Continuation In Part	09/429871 29-Oct- 1999		6471792 29-Oct- 2002	Granted 16-Nov- 2018
<b>Title: Stress Relaxation Resistant Brass</b>				
United States of America Utility Patent Filing	09/561110 28-Apr- 2000		6432556 13-Aug- 2002	Granted 28-Apr- 2020
<b>Title: Copper Alloy With A Golden Visual Appearance</b>				
United States of America Continuation In Part	09/568375 10-May- 2000		6348544 19-Feb- 2002	Granted 22-Sep- 2019

<b>Country Case Type</b>	<b>Application No. Filing Date</b>	<b>Publication No. Publication Date</b>	<b>Patent No. Patent Date</b>	<b>Status Expiration</b>
<b>Title: Tintable Water-Based Coating Composition</b>				
United States of America Priority Application	09/522544 10-Mar- 2000		6346335 12-Feb- 2002	Granted 10-Mar- 2020
<b>Title: Copper Foil Composite Including a Release Layer</b>				
United States of America Priority Application	09/304803 04-May- 1999		6251199 26-Jun- 2001	Granted 04-May- 2019
<b>Title: Copper Alloy Having Improved Resistance to Cracking Due to Localized Stress</b>				
United States of America Priority Application	09/400771 22-Sep- 1999		6194513 27-Feb- 2001	Granted 22-Sep- 2019
<b>Title: Tintable Water-Based Coating Composition</b>				
United States of America Continuation In Part	09/213545 17-Dec- 1998		6183886 06-Feb- 2001	Granted 03-Apr- 2018
<b>Title: Tin Coatings Incorporating Selected Elemental Additions to Reduce Discoloration</b>				
United States of America Divisional Filing	09/160029 24-Sep- 1998		6164370 26-Dec- 2000	Granted 16-Jul- 2013
<b>Title: Enhanced Heat Exchange Tube</b>				
United States of America Continuation In Part	09/103681 23-Jun-1998		6132528 17-Oct- 2000	Granted 18-Apr- 2017
<b>Title: Iron Modified Tin Brass</b>				
United States of America Continuation In Part	09/099297 18-Jun-1998		6093265 25-Jul- 2000	Granted 22-Jul- 2017
<b>Title: Copper May Having Improved Stress Relaxation</b>				
United States of America Continuation	08/877020 16-Jun-1997		6083633 04-Jul- 2000	Granted 18-Dec- 2015
<b>Title: Multi-Layer Diffusion Barrier for a Tin Coated Electrical Connector</b>				

<b>Country Case Type</b>	<b>Application No. Filing Date</b>	<b>Publication No. Publication Date</b>	<b>Patent No. Patent Date</b>	<b>Status Expiration</b>
United States of America Continuation	08/814163 10-Mar- 1997		6067712 30-May- 2000	Granted 15-Dec- 2013
<b>Title: Heat Exchange Tube with Embossed Enhancement</b>				
United States of America Priority Application	08/898694 22-Jul-1997		5980656 09-Nov- 1999	Granted 22-Jul- 2017
<b>Title: Copper Alloy with Magnesium Addition</b>				
United States of America Continuation In Part	08/769912 09-Dec- 1996		5916695 29-Jun- 1999	Granted 18-Dec- 2015
<b>Title: Tin Coated Electrical Connector</b>				
United States of America Continuation In Part	08/300001 01-Sep- 1994		5494209 27-Feb- 1996	Granted 27-Feb- 2013
<b>Title: Method for the Manufacture Of An Internally Enhanced Welded Tube</b>				
United States of America Utility Patent Filing	08/591065 09-Feb- 1996		5882442 16-Mar- 1999	Granted 09-Feb- 2016
<b>Title: Iron Modified Phosphor-Bronze</b>				
United States of America Priority Application	08/898053 22-Jul-1997		5868877 09-Feb- 1999	Granted 22-Jul- 2017
<b>Title: Copper Alloy Having Improved Stress Relaxation</b>				
United States of America Priority Application	08/382693 02-Feb- 1995		5489373 06-Feb- 1996	Granted 02-Feb- 2015
<b>Title: Aqueous Zinc Solution Resistant to Precipitation</b>				
United States of America Continuation In Part	08/233147 25-Apr- 1994		5486244 23-Jan- 1996	Granted 23-Jan- 2013
<b>Title: Process For Improving The Bend Formability Of Copper Alloys</b>				

<b>Country Case Type</b>	<b>Application No. Filing Date</b>	<b>Publication No. Publication Date</b>	<b>Patent No. Patent Date</b>	<b>Status Expiration</b>
United States of America Priority Application	08/844478 18-Apr- 1997		5853505 29-Dec- 1998	Granted 18-Apr- 2017
<b>Title: Iron Modified Tin Brass</b>				
United States of America Continuation	08/879689 24-Jun-1997		5800930 01-Sep- 1998	Granted 21-Jan- 2014
<b>Title: Nodular Copper/Nickel Alloy Treatment for Copper Foil</b>				
United States of America Continuation In Part	08/657211 03-Jun-1996		5780172 14-Jul- 1998	Granted 18-Dec- 2015
<b>Title: Tin Coated Electrical Connector</b>				
United States of America Continuation In Part	08/449173 24-May- 1995		5730189 24-Mar- 1998	Granted 24-Mar- 2015
<b>Title: Internally And Externally Enhanced Welded Tube</b>				
United States of America Priority Application	08/744288 06-Nov- 1996		5688356 18-Nov- 1997	Granted 06-Nov- 2016
<b>Title: Water-Based Urethane Adhesive</b>				
United States of America Priority Application	08/529265 15-Sep- 1995		5681662 28-Oct- 1997	Granted 15-Sep- 2015
<b>Title: Copper Alloy Foils for Flexible Circuits</b>				
United States of America Continuation In Part	08/277928 20-Jul-1994		5637160 10-Jun- 1997	Granted 10-Jun- 2014
<b>Title: Corrosion-Resistant Bismuth Brass</b>				
United States of America Continuation In Part	08/436894 08-May- 1995		5601665 11-Feb- 1997	Granted 11-Feb- 2014
<b>Title: Process for Improving the Bend Formability of Copper Alloys</b>				

<b>Country Case Type</b>	<b>Application No. Filing Date</b>	<b>Publication No. Publication Date</b>	<b>Patent No. Patent Date</b>	<b>Status Expiration</b>
United States of America Priority Application	08/352663 09-Dec-1994		5573845 12-Nov-1996	Granted 09-Dec-2014
<b>Title: Superficial Coating Layer Having Acicular Structures for Electrical Conductors</b>				
United States of America Continuation In Part	08/432566 01-May-1995		5565045 15-Oct-1996	Granted 04-Nov-2012
<b>Title: Copper Base Alloys Having Improved Bend Formability</b>				
United States of America Continuation In Part	08/270064 01-Jul-1994		5449951 12-Sep-1995	Granted 12-Sep-2012
<b>Title: Lead Frames with Improved Adhesion to a Polymer</b>				
United States of America Priority Application	08/126862 27-Sep-1993		5540378 30-Jul-1996	Granted 27-Sep-2013
<b>Title: Method for the Assembly of an Electronic Package</b>				
United States of America Priority Application	07/971499 04-Nov-1992		5306465 26-Apr-1994	Granted 04-Nov-2012
<b>Title: Copper Alloy Having High Strength and High Electrical Conductivity</b>				
United States of America Priority Application	08/931696 16-Sep-1997		5893953 13-Apr-1999	Granted 16-Sep-2017
<b>Title: Copper Alloy and Process for Obtaining Same</b>				
United States of America Divisional Filing	09/103866 24-Jun-1998		6099663 08-Aug-2000	Granted 16-Sep-2017
<b>Title: Copper Alloy and Process for Obtaining Same</b>				
United States of America Continuation	09/527144 16-Mar-2000		6695934 24-Feb-2004	Granted 16-Sep-2017
<b>Title: Copper Alloy and Process for Obtaining Same</b>				

<b>Country Case Type</b>	<b>Application No. Filing Date</b>	<b>Publication No. Publication Date</b>	<b>Patent No. Patent Date</b>	<b>Status Expiration</b>
United States of America Continuation In Part	09/808337 14-Mar- 2001	2001- 0010243 02-Aug- 2001	6679956 20-Jan- 2004	Granted 16-Sep- 2017
Owner: GBC Metals, LLC Title: <b>Process for Making Copper-Tin-Zinc Alloys</b>				
United States of America Utility Patent Filing	09/923137 06-Aug- 2001	2002- 0039542 04-Apr- 2002	6749699 15-Jun- 2004	Granted 06-Aug- 2021
Owner: GBC Metals, LLC Title: <b>Silver Containing Copper Alloy</b>				
United States of America Continuation	10/930316 31-Aug- 2004	2005- 0025990 03-Feb- 2005	6905782 14-Jun- 2005	Granted 08-Sep- 2020
Owner: GBC Metals, LLC Title: <b>Tarnish Deterring Tin Coating</b>				
United States of America Priority Application	10/653582 02-Sep- 2003	2005- 0048298 03-Mar- 2005	6852427 08-Feb- 2005	Granted 02-Sep- 2023
Owner: GBC Metals, LLC Title: <b>Chromium-Free Antitarnish Adhesion Promoting Treatment Composition</b>				
United States of America Priority Application	09/325036 07-Jun-1999		6241831 05-Jun- 2001	Granted 07-Jun- 2019
Owner: GBC Metals, LLC Title: <b>Copper Alloy</b>				
United States of America Divisional Filing	09/800989 07-Mar- 2001	2001- 0009168 26-Jul-2001	6689232 10-Feb- 2004	Granted 07-Jun- 2019
Owner: GBC Metals, LLC Title: <b>Copper Alloy</b>				
United States of America Priority Application	08/747014 07-Nov- 1996		5865910 02-Feb- 1999	Granted 07-Nov- 2016
Owner: GBC Metals, LLC Title: <b>Copper Alloy and Process for Obtaining Same</b>				
United States of America Continuation In Part	08/780116 26-Dec- 1996		5820701 13-Oct- 1998	Granted 07-Nov- 2016
Owner: GBC Metals, LLC				

<b>Country Case Type</b>	<b>Application No. Filing Date</b>	<b>Publication No. Publication Date</b>	<b>Patent No. Patent Date</b>	<b>Status Expiration</b>
<b>Title: Copper Alloy and Process for Obtaining Same</b>				
United States of America Priority Application	09/311038 01-Apr- 1999		6436206 20-Aug- 2002	Granted 01-Apr- 2019
Owner: GBC Metals, LLC				
<b>Title: Copper Alloy and Process for Obtaining Same</b>				
United States of America Divisional Filing	09/123710 28-Jul-1998		5916386 29-Jun- 1999	Granted 26-Dec- 2016
Owner: GBC Metals, LLC				
<b>Title: Copper Alloy and Process for Obtaining Same</b>				
United States of America Continuation	09/132440 11-Aug- 1998		5985055 16-Nov- 1999	Granted 07-Nov- 2016
Owner: GBC Metals, LLC				
<b>Title: Copper Alloy and Process for Obtaining Same</b>				
United States of America Utility Patent Filing	10/610433 30-Jun-2003	2004- 0079456 29-Apr- 2004	7182823 27-Feb- 2007	Granted 30-Jun- 2023
Owner: GBC Metals, LLC				
<b>Title: Copper Alloy Containing Cobalt, Nickel and Silicon</b>				
United States of America Utility Patent Filing	10/727920 04-Dec- 2003	2004- 0180225 16-Sep- 2004	7749611 06-Jul- 2010	Granted 13-May- 2026
Owner: GBC Metals, LLC				
<b>Title: Peel Strength Enhancement of Copper Laminates</b>				
United States of America Priority Application	09/054899 03-Apr- 1998		6136460 24-Oct- 2000	Granted 03-Apr- 2018
Owner: GBC Metals, LLC				
<b>Title: Tin Coatings Incorporated Selected Elemental Additions to Reduce Discoloration</b>				
United States of America Utility Patent Filing	10/962917 12-Oct- 2004	2005- 0106408 19-May- 2005	7391116 24-Jun- 2008	Granted 16-Jun- 2025
Owner: GBC Metals, LLC				
<b>Title: Fretting and Whisker Resistant Coating System and Method</b>				
United States of America Utility Patent Filing	10/965347 14-Oct- 2004	2005- 0089709 28-Apr- 2005	7132158 07-Nov- 2006	Granted 14-Oct- 2024
Owner: GBC Metals, LLC				
<b>Title: Support Layer for Thin Copper Foil</b>				

<b>Country Case Type</b>	<b>Application No. Filing Date</b>	<b>Publication No. Publication Date</b>	<b>Patent No. Patent Date</b>	<b>Status Expiration</b>
United States of America Utility Patent Filing	08/074189 10-Jun-1993		5381847 17-Jan-1995	Granted 10-Jun-2013
Owner: GBC Metals, LLC Title: <b>Vertical Casting Process</b>				
United States of America Continuation	11/593949 07-Nov-2006	2007- 0141380 21-Jun-2007	7731831 08-Jun-2010	Granted 16-Oct-2026
Owner: GBC Metals, LLC Title: <b>Method for Manufacturing a Composite Material Including Copper Foil and Support Layer</b>				
United States of America Utility Patent Filing	08/372272 13-Jan-1995		5472796 05-Dec-1995	Granted 13-Jan-2015
Owner: GBC Metals, LLC Title: <b>Copper Alloy Clad for Coinage</b>				
United States of America Continuation	12/145420 24-Jun-2008	2009- 0017327 15-Jan-2009	7808109 05-Oct-2010	Granted 12-Oct-2024
Owner: GBC Metals, LLC Title: <b>Fretting And Whisker Resistant Coating System and Method</b>				
United States of America Continuation	09/907224 17-Jul-2001	2002- 0002232 3-Jan-2002	6797764 28-Sep-2004	Granted 3-Feb-2020
Owner: GBC Metals, LLC Title: <b>Water-based adhesive</b>				

### **U.S. Patent Applications**

<b>Country Case Type</b>	<b>Application No. Filing Date</b>	<b>Publication No. Publication Date</b>	<b>Patent No. Patent Date</b>	<b>Status</b>
United States of America Utility Patent Filing	11/246966 7-Oct-2005	2006-0076090 13-Apr-2006		Pending
Owner: GBC Metals, LLC Title: <b>Copper Alloy Containing Cobalt, Nickel and Silicon</b>				



<b>Country Case Type</b>	<b>Application No. Filing Date</b>	<b>Publication No. Publication Date</b>	<b>Patent No. Patent Date</b>	<b>Status</b>
United States of America Utility Patent Filing Owner: GBC Metals, LLC	11/588111 26-Oct-2006	2007-0131315 14-Jun-2007		Pending
<b>Title: Copper Alloy Containing Cobalt, Nickel and Silicon</b>				
United States of America Utility Patent Filing Owner: GBC Metals, LLC	12/249530 10-Oct-2008	2009-0098011 16-Apr-2009		Pending
<b>Title: Copper Tin Nickel Phosphorus Alloys with Improved Strength and Formability and Method of Making Same</b>				
United States of America Utility Patent Filing Owner: GBC Metals, LLC	12/336731 17-Dec-2008	2009-0183803 23-Jul-2009		Pending
<b>Title: Copper Nickel Silicon Alloys</b>				
United States of America Utility Patent Filing Owner: GBC Metals, LLC	12/943196 10-Nov-2010	2011-0165013 7-Jul-2011		Pending
<b>Title: Antitarnish, Antimicrobial Copper Alloys and Surfaces Made From Such Alloys</b>				