

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4891028

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BIEDERMANN MOTECH GMBH & CO. KG	03/08/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BIEDERMANN TECHNOLOGIES GMBH & CO. KG
<b>Street Address:</b>	JOSEFSTRASSE 5
<b>City:</b>	DONAUESCHINGEN
<b>State/Country:</b>	GERMANY
<b>Postal Code:</b>	78166
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15583665
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	138931
<b>NAME OF SUBMITTER:</b>	GRACE KIM
<b>SIGNATURE:</b>	/Grace Kim/
<b>DATE SIGNED:</b>	03/29/2018
<b>Total Attachments: 7</b>	
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Docket No. 10/B884

CONFIRMATORY PATENT ASSIGNMENT

WHEREAS, BIEDERMANN MOTECH GMBH & CO. KG , a legal entity existing under the laws of Germany, having a place of business at Bertha-von-Suttner-Strasse 23, D-78054 VS-Schwenningen, Germany (hereafter, together with any successors, legal representatives or assigns thereof, called "ASSIGNOR") is the assignee of record of U.S. Patent Applications listed on the attached Exhibit A and all the inventions therein;

AND WHEREAS, BIEDERMANN TECHNOLOGIES GMBH & CO. KG, a legal entity existing under the laws of Germany, having a place of business at Josefstrasse 5, 78166 Donaueschingen, Germany (hereafter, together with any successors, legal representatives or assigns thereof, called "ASSIGNEE") acquired the entire right, title and interest in and to said U.S. Patent Applications listed on the attached Exhibit A, and all the inventions therein, by way of a spin-off and take-over agreement dated February 15, 2011 and the decision of meetings of the legal entities involved of the same date.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR does hereby confirm the sale, assignment, transfer and set over to ASSIGNEE, effective February 15, 2011, the entire right, title and interest in and to said U.S. Patent Applications listed on the attached Exhibit A, and all the inventions therein, including all continuations, divisions, reexaminations, reissues and substitutes thereof, to be held and enjoyed by ASSIGNEE, as fully and entirely as the same would have been held by ASSIGNOR had the spin-off and take-over agreement and the decisions of meetings of the legal entities involved on the same date not been made.

IN TESTIMONY WHEREOF, I hereunto set my hand this 08<sup>th</sup> day of March 2010, 20\_\_\_\_\_.

Biedermann Motech GmbH & Co. KG

By T. Biedermann  
Timo Biedermann  
President and CEO

Witnesses: Lowak LOWAK  
Meg MEG, cks

MEG/cks

CKS PAS1163649.1-03/7/12 2:42 PM

EXHIBIT A

Case Number	Applications No.	Filing Date	Application Title
56407	10/399066	12-Nov-2003	BONE SCREW
56472	10/098937	15-Mar-2002	SCREW
56480	10/181182	10-Jul-2002	BONE SCREW
56481	10/221840	12-Sep-2002	CONNECTOR ELEMENT FOR BONE RODS OR SPINAL RODS
56482	10/329888	26-Dec-2002	LOCKING DEVICE FOR SECURING A ROD-SHAPED ELEMENT IN A
56483	09/764936	18-Jan-2001	FASTENING ASSEMBLY WITH IMPROVED HANDLING PROPERTIES
56523	10/451389	19-Jun-2003	BONE FIXATION DEVICE AND SCREW THEREFOR
56524	10/726177	01-Dec-2003	ELEMENT HAVING A SHAFT AND A HOLDING ELEMENT CONNECTED
56525	10/279196	23-Oct-2002	BONE FIXING DEVICE
56527	09/200885	30-Nov-1998	INTERVERTEBRAE IMPLANT
56532	10/040703	07-Jan-2002	ANCHORING ELEMENT
56533	10/034290	21-Dec-2001	FIXING ELEMENT
56534	08/198949	18-Feb-1994	BONE SCREW
56540	09/402425	04-Oct-1999	SPACER WITH ADJUSTABLE AXIAL LENGTH
56541	29/076390	11-Sep-1997	SHOE FOR THERAPY
56542	10/198603	17-Jul-2002	BONE SCREW AND FASTENING TOOL FOR SAME
56546	07/817659	07-Jan-1992	PEDICLE SCREW AND RECEIVER MEMBER THEREFOR
56556	08/938403	25-Sep-1997	SPACE HOLDER IN PARTICULAR FOR A VERTEBRA OR AN
56601	10/306060	27-Nov-2002	LOCKING DEVICE FOR SECURING A ROD-SHAPED ELEMENT IN A
56602	10/250489	02-Jul-2003	SPACE KEEPER WITH ADJUSTABLE AXIAL LENGTH
56603	10/680706	06-Oct-2003	BONE SCREW AND BONE SCREW WITH HOLDING ELEMENT
56647	08/581149	29-Dec-1995	SPACE HOLDER, IN PARTICULAR FOR A VERTEBRA OR AN
56654	10/637349	07-Aug-2003	DYNAMIC STABILIZATION DEVICE FOR BONES, IN PARTICULAR FOR
56655	10/470255	23-Jul-2003	CONNECTING ELEMENT
56656	10/841862	06-May-2004	DYNAMIC ANCHORING DEVICE AND DYNAMIC STABILIZATION DEVICE
56657	10/835490	28-Apr-2004	BONE ANCHORING ELEMENT WITH THREAD THAT CAN BE
56658	10/494456	30-Apr-2004	ANCHORING ELEMENT
56717	10/799143	11-Mar-2004	ANCHORING ELEMENT FOR USE IN SPINE OR BONE SURGERY,
56718	10/034545	21-Dec-2001	LENGTHWISE ADJUSTABLE SPACE MAINTAINER FOR INSERTING
56719	10/401159	27-Mar-2003	BONE ANCHORING DEVICE FOR STABILIZING BONE SEGMENTS AND
56720	09/806787	02-Apr-2001	BONE SCREW
56721	08/930149	08-Oct-1997	BONE SCREW
56722	09/068325	05-May-1998	BONE PLATE
56724	08/737156	08-Nov-1996	MEMBER FOR STABILIZING CERVICAL
56726	11/063049	22-Feb-2005	BONE ANCHORING ELEMENT

56727	11/070873	02-Mar-2005	ANCHORING ELEMENT AND STABILIZATION DEVICE FOR THE DYNAMIC
56728	11/075235	08-Mar-2005	ROD-LIKE ELEMENT FOR APPLICATION IN SPINAL OR TRAUMA
56729	11/102247	08-Apr-2005	ELASTIC ELEMENT FOR THE USE IN A STABILIZATION DEVICE FOR
56730	11/072911	04-Mar-2005	STABILIZATION DEVICE FOR THE DYNAMIC STABILIZATION OF
56731	10/647096	21-Aug-2003	METHOD FOR THE MANUFACTURE OF A TUBULAR SPACER AND
56732	10/306057	27-Nov-2002	ELEMENT WITH A SHANK AND A HOLDING ELEMENT CONNECTED TO IT
56733	11/070421	02-Mar-2005	BONE ANCHORING ELEMENT FOR ANCHORING IN A BONE OR
56754	10/982188	05-Nov-2004	STABILIZATION DEVICE FOR BONES COMPRISING A SPRING ELEMENT
56755	10/966921	15-Oct-2004	ROD-SHAPED IMPLANT ELEMENT WITH FLEXIBLE SECTION
56756	11/009224	09-Dec-2004	HEIGHT-ADJUSTABLE INTERVERTEBRAE IMPLANT
56757	11/121888	04-May-2005	FLEXIBLE SPACE HOLDER
56759	11/159003	22-Jun-2005	BONE ANCHORING DEVICE FOR STABILISING BONE SEGMENTS AND
56941	11/440489	24-May-2006	RECEIVING PART FOR CONNECTING A SHANK OF A BONE ANCHORING
57116	10/568262	13-Feb-2006	SPACE HOLDER FOR VERTEBRAE OR INTERVERTEBRAL DISCS
57529	11/482395	07-Jul-2006	BONE ANCHORING DEVICE
57540	10/575699	13-Apr-2006	FLEXIBLE IMPLANT
57586	11/482374	07-Jul-2006	BONE ANCHORING ELEMENT
57587	11/484180	10-Jul-2006	BONE ANCHORING DEVICE
57588	11/499034	04-Aug-2006	BONE ANCHORING ELEMENT
57589	11/509544	23-Aug-2006	ROD-SHAPED IMPLANT ELEMENT FOR THE APPLICATION IN SPINE
57766	10/876398	24-Jun-2004	TISSUE INTEGRATION DESIGN FOR SEAMLESS IMPLANT FIXATION
57776	11/498931	03-Aug-2006	BONE ANCHORING DEVICE
57778	11/698237	24-Jan-2007	CONNECTING ROD WITH EXTERNAL FLEXIBLE ELEMENT
58035	11/645325	21-Dec-2006	DYNAMIC STABILIZATION DEVICE FOR BONES OR VERTEBRAE
58036	11/642566	19-Dec-2006	FLEXIBLE STABILIZATION DEVICE FOR DYNAMIC STABILIZATION OF
58066	11/548856	12-Oct-2006	BONE ANCHORING DEVICE
58213	11/645228	22-Dec-2006	MULTI-WALLED PLACEHOLDER
58281	11/599676	15-Nov-2006	BONE ANCHORING DEVICE
58414	11/588687	26-Oct-2006	IMPLANT WITH ONE PIECE SWIVEL JOINT
58458	11/646973	27-Dec-2006	BONE ANCHORING DEVICE
58779	10/660452	11-Sep-2003	INVERTEBRAL DISK PROSTHESIS
58780	10/660453	11-Sep-2003	SPACE KEEPER FOR VERTEBRAE OR INTERVERTEBRAL DISKS
58921	11/729444	28-Mar-2007	LOCKING ASSEMBLY FOR SECURING A ROD MEMBER IN A RECEIVER
58959	08/244397	20-May-1994	ANCHORING MEMBER
58960	08/626405	27-Mar-1996	ANCHORING MEMBER
59060	11/652713	11-Jan-2007	BONE FIXATION DEVICE AND SCREW THEREFOR
59338	11/697220	05-Apr-2007	BONE ANCHORING DEVICE

59381	11/749395	16-May-2007	LONGITUDINAL MEMBER FOR USE IN SPINAL OR TRAUMA SURGERY
59774	11/895364	24-Aug-2007	BONE ANCHORING DEVICE
59791	11/804572	18-May-2007	FASTENING ASSEMBLY
59882	11/854508	12-Sep-2007	BONE ANCHORING DEVICE
59916	11/776409	11-Jul-2007	SPACER FOR INSERTION BETWEEN TWO VERTEBRAE
60196	11/934625	02-Nov-2007	BONE ANCHORING DEVICE
60197	11/870326	10-Oct-2007	BONE ANCHORING NAIL
60354	11/844580	23-Nov-2007	EXPANDABLE INTERVERTEBRAL IMPLANT
60487	11/960428	19-Dec-2007	BONE ANCHORING DEVICE
60671	11/944167	21-Nov-2007	BONE ANCHORING DEVICE
60831	12/035386	21-Feb-2008	STABILIZATION DEVICE FOR STABILIZING BONES OF A VERTEBRA AND
61177	11/965211	27-Dec-2007	IMPLANT HAVING A SHAFT AND A HOLDING ELEMENT CONNECTED
61682	12/180481	25-Jul-2008	INTERVERTEBRAL DISC PROSTHESIS
61752	12/175431	17-Jul-2008	BONE ANCHORING DEVICE
61753	12/180462	25-Jul-2008	FIXATION DEVICE FOR BONES
61769	12/183982	31-Jul-2008	BONE ANCHORING DEVICE
62260	12/249855	10-Oct-2008	ROD ASSEMBLY AND MODULAR ROD SYSTEM FOR SPINAL
62404	12/238347	25-Sep-2008	BONE ANCHORING DEVICE AND BONE STABILIZATION DEVICE
62405	12/242649	30-Sep-2008	ROD CONNECTION IN A SURGICAL DEVICE AND ROD-SHAPED BONE
62679	12/343232	23-Dec-2008	IMPLANT FOR STABILIZING VERTEBRAE OR BONES
62680	12/333873	12-Dec-2008	ANCHORING DEVICE FOR ANCHORING A ROD IN BONES OR
62753	12/488458	19-Jun-2009	BONE ANCHORING ASSEMBLY
62784	12/494107	29-Jun-2009	BONE ANCHOR WITH PLUG MEMBER AND TOOL FOR INSERTING THE
63102	12/402305	11-Mar-2009	BONE ANCHORING DEVICE
63127	12/550654	31-Aug-2009	BONE ANCHORING ELEMENT AND STABILIZATION DEVICE FOR BONES, IN PARTICULAR FOR THE SPINAL COLUMN
63153	12/571299	30-Sep-2009	BONE ANCHORING DEVICE AND STABILIZATION DEVICE FOR BONE PARTS OR VERTEBRAE COMPRISING SUCH A BONE ANCHORING DEVICE
63154	12/550960	31-Aug-2009	ROD-SHAPED IMPLANT IN PARTICULAR FOR STABILIZING THE SPINAL COLUMN AND STABILIZATION DEVICE INCLUDING SUCH A ROD- SHAPED IMPLANT
63227	12/424436	15-Apr-2009	INSTRUMENT FOR ASSEMBLING A BONE ANCHORING DEVICE RECEIVING PART FOR RECEIVING A ROD FOR COUPLING THE ROD TO A BONE ANCHORING ELEMENT AND A BONE ANCHORING DEVICE WITH SUCH A RECEIVING PART
63232	12/626830	27-Nov-2009	
63248	12/425927	16-Apr-2009	ROD-SHAPED IMPLANT, IN PARTICULAR FOR SPINAL STABILIZATION,

63299	12/435894	05-May-2009	ROD-SHAPED IMPLANT, IN PARTICULAR FOR THE DYNAMIC MODULAR SYSTEM FOR THE STABILIZATION OF THE SPINAL COLUMN
63376	12/540267	12-Aug-2009	ELONGATED IMPLANT DEVICE AND BONE STABILIZATION DEVICE INCLUDING THE SAME
63481	12/573733	05-Oct-2009	FLEXIBLE STABILIZATION DEVICE INCLUDING A ROD AND TOOL FOR SPACE KEEPER WITH ADJUSTABLE AXIAL SURGERY
63560	12/539239	11-Aug-2009	TOOL FOR USE WITH A BONE ANCHOR, IN PARTICULAR FOR SPINAL SURGERY
63626	12/414624	30-Mar-2009	RECEIVING PART FOR RECEIVING A ROD FOR COUPLING THE ROD TO A BONE ANCHORING ELEMENT AND A BONE ANCHORING DEVICE WITH SUCH A RECEIVING PART
64198	12/755360	06-Apr-2010	RECEIVING PART FOR RECEIVING A ROD FOR COUPLING THE ROD TO A BONE ANCHORING ELEMENT AND A BONE ANCHORING DEVICE WITH SUCH A RECEIVING PART
64199	12/649194	28-Dec-2009	RECEIVING PART FOR RECEIVING A ROD FOR COUPLING THE ROD TO A BONE ANCHORING ELEMENT AND A BONE ANCHORING DEVICE WITH SUCH A RECEIVING PART
64221	12/645335	22-Dec-2009	RECEIVING PART FOR RECEIVING A ROD FOR COUPLING THE ROD TO A BONE ANCHORING ELEMENT AND A BONE ANCHORING DEVICE WITH SUCH A RECEIVING PART
64236	12/556515	9-Sep-2009	BONE ANCHORING DEVICE
64243	12/649236	29-Dec-2009	RECEIVING PART FOR RECEIVING A ROD FOR COUPLING THE ROD TO A BONE ANCHORING ELEMENT AND A BONE ANCHORING DEVICE WITH SUCH A RECEIVING PART
64244	12/709375	19-Feb-2010	RECEIVING PART FOR RECEIVING A ROD FOR COUPLING THE ROD TO A BONE ANCHORING ELEMENT AND A BONE ANCHORING DEVICE WITH SUCH A RECEIVING PART
64329	12/565597	23-Sep-2009	STABILIZATION DEVICE FOR THE DYNAMIC STABILIZATION OF BONE ANCHORING DEVICE
64356	12/609800	30-Oct-2009	BONE ANCHORING DEVICE
64368	12/606857	27-Oct-2009	HEIGHT-ADJUSTABLE INTERVERTEBRAE IMPLANT
64445	12/606772	27-Oct-2009	ROD-SHAPED IMPLANT ELEMENT WITH FLEXIBLE SECTION
64486	12/606782	27-Oct-2009	ROD-LIKE ELEMENT FOR APPLICATION IN SPINAL OR TRAUMA ANCHORING ELEMENT AND STABILIZATION DEVICE FOR THE DYNAMIC
64585	12/890130	24-Sep-2010	INSTRUMENTS FOR USE WITH A BONE ANCHOR WITH PLUG MEMBER
65267	12/821715	23-Jun-2010	BONE ANCHORING ELEMENT WITH THREAD THAT CAN BE
65345	12/749797	30-Mar-2010	BONE ANCHORING ELEMENT WITH THREAD THAT CAN BE
65409	12/763095	19-Apr-2010	BONE SCREW
65489	12/845551	28-Jul-2010	BONE ANCHORING DEVICE
65500	12/764442	21-Apr-2010	DYNAMIC STABILIZATION DEVICE FOR BONES, IN PARTICULAR FOR BONE ANCHORING DEVICE
65534	12/789162	27-May-2010	RECEIVING PART FOR RECEIVING A ROD FOR COUPLING THE ROD TO A BONE ANCHORING ELEMENT
65550	12/855395	12-Aug-2010	BONE ANCHORING ELEMENT
65579	12/775745	07-May-2010	BONE SCREW AND BONE SCREW WITH HOLDING ELEMENT

65592	12/856251	13-Aug-2010	BONE ANCHORING DEVICE, TOOL AND METHOD FOR ASSEMBLING THE SAME AND TOOL FOR USE WITH THE SAME
65612	12/781168	17-May-2010	DEVICE FOR FORMING A BORE TO FACILITATE INSERTION OF AN ARCUATE NAIL INTO A BONE
65630	12/734833	25-May-2010	BONE NAIL FOR THE HEEL
65713	12/791509	01-Jun-2010	BONE ANCHORING DEVICE
65772	12/831002	06-Jul-2010	BONE FIXING DEVICE
65790	12/890341	24-Sep-2010	BONE ANCHORING DEVICE
65912	13/034553	24-Feb-2011	IMPLANT FOR STABILIZING BONES OR VERTEBRAE
65926	12/969513	15-Dec-2010	BONE ANCHORING DEVICE
65935	12/844588	27-Jul-2010	BONE ANCHORING NAIL
66009	12/856061	13-Aug-2010	SPACER FOR INSERTION BETWEEN TWO VERTEBRAE
66013	13/034574	24-Feb-2011	BONE SCREW
66026	12/860671	20-Aug-2010	SPACE KEEPER FOR VERTEBRAE OR INTERVERTEBRAL DISKS
66064	12/958914	02-Dec-2010	BONE SCREW
66075	12/958898	02-Dec-2010	BONE SCREW
66449	12/862392	15-Sep-2010	ELASTIC ELEMENT FOR THE USE IN A STABILIZATION DEVICE FOR BONES AND VERTEBRAE AND METHOD FOR THE MANUFACTURE OF SUCH ELASTIC ELEMENT
66465	12/985183	05-Jan-2011	BONE SCREW
66600	12/908826	20-Oct-2010	BONE ANCHORING ELEMENT
66788	13/073503	28-Mar-2011	BONE ANCHORING DEVICE
66914	13/005285	12-Jan-2011	BONE ANCHORING DEVICE
67050	13/021135	04-Feb-2011	SPACE HOLDER FOR VERTEBRAE OR INTERVERTEBRAL DISCS RECEIVING PART FOR RECEIVING A ROD FOR COUPLING THE ROD TO A BONE ANCHORING ELEMENT, BONE ANCHORING DEVICE, METHOD AND TOOL FOR ASSEMBLING THE SAME
67239	13/101989	05-May-2011	
67240	13/101997	05-May-2011	METHOD AND TOOL FOR ASSEMBLING A BONE ANCHORING DEVICE
67333	13/088031	15-Apr-2011	INTERVERTEBRAL DISK PROSTHESIS
67402	13/100007	03-May-2011	BONE ANCHORING DEVICE
67578	13/152887	03-Jun-2011	LOCKING ASSEMBLY FOR SECURING A ROD MEMBER IN A RECEIVER PART FOR USE IN SPINAL OR TRAUMA SURGERY, BONE ANCHORING DEVICE WITH SUCH A LOCKING ASSEMBLY AND TOOL THEREFOR
67991	13/175128	01-Jul-2011	IMPLANT HAVING A SHAFT AND A HOLDING ELEMENT CONNECTED THEREWITH FOR CONNECTING WITH A ROD



68507	13/245361	26-Sep-2011	BONE ANCHORING DEVICE
68555	13/252007	03-Oct-2011	BONE ANCHORING DEVICE
68643	13/285784	31-Oct-2011	BONE ANCHORING DEVICE
69070	13/367729	07-Feb-2012	BONE SCREW
69084	13/356431	23-Jan-2012	ANCHORING ELEMENT FOR USE IN SPINE OR BONE SURGERY, METHODS FOR USE AND PRODUCTION THEREOF

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RECORDED: 03/16/2012  
RECORDED: 03/09/2016

PATENT  
REEL: 027873 FRAME: 0563  
PATENT  
REEL: 046388 FRAME: 0989