

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5946364

|                                                                                                                                                                                                 |                                    |                       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------|
| <b>SUBMISSION TYPE:</b>                                                                                                                                                                         | NEW ASSIGNMENT                     |                       |
| <b>NATURE OF CONVEYANCE:</b>                                                                                                                                                                    | ASSIGNMENT                         |                       |
| <b>CONVEYING PARTY DATA</b>                                                                                                                                                                     |                                    |                       |
|                                                                                                                                                                                                 | <b>Name</b>                        | <b>Execution Date</b> |
|                                                                                                                                                                                                 | HEXAGON METROLOGY AB               | 06/05/2015            |
| <b>RECEIVING PARTY DATA</b>                                                                                                                                                                     |                                    |                       |
| <b>Name:</b>                                                                                                                                                                                    | HEXAGON AB                         |                       |
| <b>Street Address:</b>                                                                                                                                                                          | LILLA BANTORGET 15                 |                       |
| <b>City:</b>                                                                                                                                                                                    | STOCKHOLM                          |                       |
| <b>State/Country:</b>                                                                                                                                                                           | SWEDEN                             |                       |
| <b>Postal Code:</b>                                                                                                                                                                             | SE-10359                           |                       |
| <b>PROPERTY NUMBERS Total: 1</b>                                                                                                                                                                |                                    |                       |
|                                                                                                                                                                                                 | <b>Property Type</b>               | <b>Number</b>         |
|                                                                                                                                                                                                 | Application Number:                | 16666165              |
| <b>CORRESPONDENCE DATA</b>                                                                                                                                                                      |                                    |                       |
| <b>Fax Number:</b>                                                                                                                                                                              | (949)760-9502                      |                       |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                                    |                       |
| <b>Phone:</b>                                                                                                                                                                                   | 9497600404                         |                       |
| <b>Email:</b>                                                                                                                                                                                   | efiling@knobbe.com                 |                       |
| <b>Correspondent Name:</b>                                                                                                                                                                      | KNOBBE, MARTENS, OLSON & BEAR, LLP |                       |
| <b>Address Line 1:</b>                                                                                                                                                                          | 2040 MAIN STREET, 14TH FLOOR       |                       |
| <b>Address Line 4:</b>                                                                                                                                                                          | IRVINE, CALIFORNIA 92614           |                       |
| <b>ATTORNEY DOCKET NUMBER:</b>                                                                                                                                                                  | HEXTC.058C1                        |                       |
| <b>NAME OF SUBMITTER:</b>                                                                                                                                                                       | KREGG A. KOCH                      |                       |
| <b>SIGNATURE:</b>                                                                                                                                                                               | /Kregg A. Koch/                    |                       |
| <b>DATE SIGNED:</b>                                                                                                                                                                             | 02/04/2020                         |                       |
| <b>Total Attachments: 53</b>                                                                                                                                                                    |                                    |                       |
| source=Hex Metrology to Hex AB Assignment - HEXTC.058C1#page1.tif                                                                                                                               |                                    |                       |
| source=Hex Metrology to Hex AB Assignment - HEXTC.058C1#page2.tif                                                                                                                               |                                    |                       |
| source=Hex Metrology to Hex AB Assignment - HEXTC.058C1#page3.tif                                                                                                                               |                                    |                       |
| source=Hex Metrology to Hex AB Assignment - HEXTC.058C1#page4.tif                                                                                                                               |                                    |                       |
| source=Hex Metrology to Hex AB Assignment - HEXTC.058C1#page5.tif                                                                                                                               |                                    |                       |
| source=Hex Metrology to Hex AB Assignment - HEXTC.058C1#page6.tif                                                                                                                               |                                    |                       |

[illegible]

## IP ASSIGNMENT AGREEMENT

This IP Assignment Agreement (this "Agreement") is dated June 5, 2015 and made between:

- (1) **HEXAGON METROLOGY AB**, a corporation (*aktiebolag*) incorporated under the laws of Sweden (the "Transferor"); and
- (2) **HEXAGON AB**, a corporation (*aktiebolag*) incorporated under the laws of Sweden (the "Transferee").

(the Transferor and the Transferee are jointly referred to as the "Parties").

WHEREAS, pursuant to the terms of that certain Transfer Agreement dated as of the date hereof, by and between Transferor and Transferee ("Transfer Agreement" or "B&S IP Assignment Agreement"), Transferor does hereby sell, convey, transfer, assign, set over and deliver exclusively to Transferee all of its rights to the intellectual property, trademarks, service marks, logos, including registrations and applications for registration thereof, patents, reissues, reexaminations, extensions, continuations in part, continuing prosecution applications provisional and divisions of such patents and any related know-how and intangibles (collectively, "Intellectual Property Rights") related to the matters described on Appendix 1 (collectively, the "Assigned Rights"); and

WHEREAS, the Transferor wishes to transfer and assign all its right to such Assigned Rights and the Transferee desires to accept such transfer of such Assigned Rights.

NOW THEREFORE, the Parties agree as follows:

1. **ASSIGNMENT.** Upon execution of this Agreement:
  - a) the Transferor transfers, assigns, conveys and delivers to the Transferee, and Transferee accepts from Transferor, all of its entire right, title and interest under the Assigned Rights and any claims of infringement thereof; and
  - b) Transferor does hereby constitute and appoint Transferee, its successors and assigns, as the Transferor's true and lawful attorney, with full power of substitution, for it and in its name, place and stead or otherwise, by and on behalf of and for the benefit of Transferee, its successors and assigns, to demand and receive from time to time any and all Assigned Rights, Transferor hereby declaring that the appointment hereby made and the powers hereby granted are coupled with an interest and are and shall be irrevocable by Transferor in any manner or for any reason.
2. **MISCELLANEOUS**
  - 2.1 Amendment. No amendment, modification or waiver in respect of this Agreement will be effected unless in writing and executed by each of the Parties.
  - 2.3 Further Assurances. If at any time any party hereto shall reasonably request any further action by any other party to carry out the purposes of this Agreement or to further effectuate the transactions contemplated hereby, such other party, without expense to the requesting party, shall promptly take such action (including the prompt execution and delivery of further instruments and documents).
  - 2.2 Counterparts. This Agreement may be executed in counterparts, each of which shall be deemed to be an original, but all of which, taken together, shall constitute one and the same agreement. Any signature delivered by e-mail delivery of a ".pdf" format data file shall have the same force and effect as if such ".pdf" signature page were an original thereof.

3. **GOVERNING LAW.** This Agreement shall be governed by and construed in accordance with the laws of Sweden.

**IN WITNESS WHEREOF**, the Parties have duly executed this Agreement as of the day and year first above written.

HEXAGON METROLOGY AB



Name: Robert Belkic

HEXAGON AB



Name: Ola Rollén



Name: Robert Belkic

APPENDIX 1  
INTELLECTUAL PROPERTY

Please see the following pages.

Hexagon Metrology AB (Owner)

1/14/2015

## Overview I:

Patents, patent applications and utility models  
owned by

HEXAGON METROLOGY AB

Patent Family K22-51891 ("Apparatus and Method for Dimensional Metrology") → see overview 2 / Wilcom

1

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology, Inc. / OceanSide

Patent Family: KZP-51451

1/14/2015

Patent Family:

KZP-51451

Title:

Articulated Arm

Systems and Methods for Control and Calibration of a Coordinate Measuring Machine \*

Coordinate Measuring Machine with Improved Sensors \*\*

Coordinate Measuring Machine with Modular Functionality \*\*\*

Enhanced Position Detector for a Coordinate Measuring Machine \*\*\*\*

Improved Articulated Arm †

Hexagon Metrology, Inc. / OceanSide, CA

Internal References: HEXAG.053; HEXAG.057; HEXAG.058; HEXAG.059; HEXAG.060

Applicant: Hexagon Metrology AB

Inventors: Paul Ferrari, Peter Champ, Laurent Desfruges, Jean-Paul Delencze, Thibault Duportal, Jean-Luc Farnachon, Jerry Gerez, Hong Dingruai,

Heinz Lippuner, Denny Roux, Elie Shammas, Knut Siercks, Roger Tait

Priority Date:

06.11.2009

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date | Application No.                        | Publication Date | Publication No.    | Patent Issue Date | Patent No.      | Status              |
|---------|-------------------------|------------------------|-------------|----------------------------------------|------------------|--------------------|-------------------|-----------------|---------------------|
| US      | KZP-51451-US            | Hexagon Metrology AB   | 26.03.2010  | 12748.169                              | 12.05.2011       | US 2011/0107612 A1 | 14.02.2012        | US 8,112,896 B2 | Patent in force     |
| US      | KZP-51451-US1           | Hexagon Metrology AB   | 26.03.2010  | 12748.243 *                            | 12.05.2011       | US 2011/0107611 A1 | 27.12.2011        | US 8,082,679 B2 | Patent in force     |
| US      | KZP-51451-US2           | Hexagon Metrology AB   | 26.03.2010  | 12748.278 **                           | 12.05.2011       | US 2011/0112786 A1 |                   |                 | Application pending |
| US      | KZP-51451-US3           | Hexagon Metrology AB   | 26.03.2010  | 12748.246 ***                          | 12.05.2011       | US 2011/0107613 A1 | 10.04.2012        | US 8,151,477 B2 | Patent in force     |
| US      | KZP-51451-US4           | Hexagon Metrology AB   | 26.03.2010  | 12748.267 ****                         | 12.05.2011       | US 2011/0107614 A1 | 24.01.2012        | US 8,099,577 B2 | Patent in force     |
| US      | KZP-51451-US5           | Hexagon Metrology AB   | 28.11.2011  | 13305.425 *<br>(Continuation of US1)   | 22.05.2012       | US 2012/0066923 A1 | 29.04.2014        | US 8,707,572 B2 | Patent in force     |
| US      | KZP-51451-US6           | Hexagon Metrology AB   | 21.12.2011  | 13333.655 ***<br>(Continuation of US4) | 19.04.2012       | US 2012/0080185 A1 | 11.12.2012        | US 8,327,535 B2 | Patent in force     |
| US      | KZP-51451-US7           | Hexagon Metrology AB   | 17.01.2012  | 13352.002<br>(Continuation of US)      | 14.06.2012       | US 2012/0144694 A1 | 26.03.2013        | US 8,403,669 B2 | Patent in force     |

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date                | Application No.                         | Publication Date | Publication No.    | Parent Issue Date | Parent No.      | Status              |
|---------|-------------------------|------------------------|----------------------------|-----------------------------------------|------------------|--------------------|-------------------|-----------------|---------------------|
| US      | KZP-51451-US8           | Hexagon Metrology AB   | 02.03.2012                 | 13/411,952 **<br>(Continuation of US8)  | 06.09.2012       | US 2012/0222323 A1 | 02.04.2013        | US 8,407,907 B2 | Patent in force     |
| US      | KZP-51451-US10          | Hexagon Metrology AB   | 05.03.2013                 | 13/786,189 **<br>(Continuation of US8)  | 19.09.2013       | US 2013/0239424 A1 | 22.04.2014        | US 8,701,299 B2 | Patent in force     |
| US      | KZP-51451-US11          | Hexagon Metrology AB   | 20.02.2013                 | 13/772,120<br>(Continuation of US7)     | 23.01.2014       | US 2014/0020255 A1 | 30.09.2014        | US 8,844,151 B2 | Patent in force     |
| US      | KZP-51451-US12          | Hexagon Metrology AB   | 18.03.2014                 | 14/218,538 **<br>(Continuation of US10) | 21.08.2014       | US 2014/0230261 A1 |                   |                 | Application pending |
| US      | KZP-51451-US14          | Hexagon Metrology AB   | 22.04.2014                 | 14/299,021 *<br>(Continuation of US5)   | 02.10.2014       | US 2014/0230081 A1 |                   |                 | Application pending |
| US      | KZP-51451-US15          | Hexagon Metrology AB   | 29.08.2014                 | 14/473,824<br>(Continuation of US11)    |                  |                    |                   |                 | Application pending |
| CA      | KZP-51451-CA            | Hexagon Metrology AB   | 05.11.2010<br>(04.05.2012) | 2,780,147 †                             | 24.07.2012       | CA 2,780,147 A1    |                   |                 | Application pending |
| CN      | KZP-51451-CN            | Hexagon Metrology AB   | 05.11.2010<br>(06.07.2012) | 201080660906.2 †                        | 31.10.2012       | CN 102762950 A     |                   |                 | Application pending |
| CN      | KZP-51451-CN1           | Hexagon Metrology AB   | 05.11.2010<br>(03.05.2013) | 201310160735.6 †<br>(Divisional of CN)  | 11.05.2013       | CN 103292657 A     |                   |                 | Application pending |
| CN      | KZP-51451-CN2           | Hexagon Metrology AB   | 05.11.2010<br>(03.05.2013) | 201310160836.1 †<br>(Divisional of CN)  | 02.10.2013       | CN 103333574 A     |                   |                 | Application pending |
| CN      | KZP-51451-CN3           | Hexagon Metrology AB   | 05.11.2010<br>(03.05.2013) | 201310161206.8 †<br>(Divisional of CN)  | 28.08.2013       | CN 103267462 A     |                   |                 | Application pending |
| CN      | KZP-51451-CN4           | Hexagon Metrology AB   | 05.11.2010<br>(03.05.2013) | 201310161007.7 †<br>(Divisional of CN)  | 02.10.2013       | CN 103335575 A     |                   |                 | Application pending |
| EP      | KZP-51451-EP            | Hexagon Metrology AB   | 05.11.2010<br>(06.06.2012) | 10779875.3 †                            | 12.05.2012       | EP 2 496 909 A2    |                   |                 | Application pending |
| EP      | KZP-51451-EP1           | Hexagon Metrology AB   | 05.11.2010<br>(28.03.2013) | 19161818.3 †<br>(Divisional of EP)      | 03.07.2013       | EP 2 610 580 A1    |                   |                 | Application pending |

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology, Inc. / Oceanside

Patent Family: KZP-51451

1/14/2015

| Country | Hexagon / EHP Reference | Legal Owner (Register) | Filing Date                | Application No.                     | Publication Date | Publication No.  | Parent Issue Date | Patent No. | Status              |
|---------|-------------------------|------------------------|----------------------------|-------------------------------------|------------------|------------------|-------------------|------------|---------------------|
| EP      | KIP-51451-EP1           | Hexagon Metrology AB   | 05.11.2010<br>(28.03.2013) | 13161819.1 †<br>(Divisional of EP)  | 03.07.2013       | EP 2 610 581 A1  |                   |            | Application pending |
| EP      | KIP-51451-EP2           | Hexagon Metrology AB   | 05.11.2010<br>(28.03.2013) | 13161820.9 †<br>(Divisional of EP)  | 03.07.2013       | EP 2 610 582 A1  |                   |            | Application pending |
| EP      | KIP-51451-EP4           | Hexagon Metrology AB   | 05.11.2010<br>(28.03.2013) | 13161821.7 †<br>(Divisional of EP)  | 03.07.2013       | EP 2 610 583 A1  |                   |            | Application pending |
| EP      | KIP-51451-EP5           | Hexagon Metrology AB   | 05.11.2010<br>(07.03.2014) | 14158320.3 †<br>(Divisional of EP)  | 18.06.2014       | EP 2 740 633 A1  |                   |            | Application pending |
| JP      | KZP-51451-JP            | Hexagon Metrology AB   | 05.11.2010<br>(07.03.2012) | 2012-538047 †                       | 21.03.2013       | JP 2013-510320 A |                   |            | Application pending |
| JP      | KZP-51451-JP1           | Hexagon Metrology AB   | 05.11.2010<br>(17.07.2012) | 2012-158853 †<br>(Divisional of JP) | 27.12.2012       | JP 2012-254522 A |                   |            | Application pending |
| JP      | KZP-51451-JP2           | Hexagon Metrology AB   | 05.11.2010<br>(17.07.2012) | 2012-158854 †<br>(Divisional of JP) | 29.11.2012       | JP 2012-258912 A |                   |            | Application pending |
| JP      | KZP-51451-JP3           | Hexagon Metrology AB   | 05.11.2010<br>(17.07.2012) | 2012-158855 †<br>(Divisional of JP) | 29.11.2012       | JP 2012-258913 A |                   |            | Application pending |
| JP      | KZP-51451-JP4           | Hexagon Metrology AB   | 05.11.2010<br>(17.07.2012) | 2012-158856 †<br>(Divisional of JP) | 13.12.2012       | JP 2012-247430 A |                   |            | Application pending |

Expired applications:

US 61/759,105 (KZP-51451-USP)  
 PCT/US2010/055713 (KZP-51451-WO)

priority application  
 national/regional stage entry in CA, CN, EP and JP

Lapsed applications:

US 13/673,785 (KZP-51451-USP)  
 US 14/218,559 (KZP-51451-USP)

continuation of US6  
 continuation of US6

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology, Inc. / OceanSide

Patent Family: KZP-51563

1/14/2015

Patent Family: KZP-51563

Title: Coordinate Measuring Machine with Improved Joint

Entity of Origin: Hexagon Metrology, Inc. / OceanSide, CA

Internal Reference: HEXAG.032

Applicant: Hexagon Metrology AB

Inventors: Homer Eaton, Paul Ferrari

Priority Date: 20.11.2006

| Country | Hexagon / EHP Reference | Legal Owner (Register) | Filing Date                | Application No.                     | Publication Date | Publication No.    | Parent Issue Date | Parent No.       | Status              |
|---------|-------------------------|------------------------|----------------------------|-------------------------------------|------------------|--------------------|-------------------|------------------|---------------------|
| US      | KZP-51563-US            | Hexagon Metrology AB   | 20.11.2007                 | 11/940,463                          | 05.06.2009       | US 2009/0127501    | 29.06.2010        | US 7,743,524 B2  | Patent in force     |
| US      | KZP-51563-US1           | Hexagon Metrology AB   | 24.06.2010                 | 12/622,940<br>(Continuation of US)  | 14.10.2010       | US 2010/0257746 A1 | 13.09.2011        | US 8,015,723 B2  | Patent in force     |
| US      | KZP-51563-US2           | Hexagon Metrology AB   | 23.08.2011                 | 13/215,560<br>(Continuation of US1) | 15.12.2011       | US 2011/0302797 A1 | 25.12.2012        | US 8,336,220 B2  | Patent in force     |
| AU      | KZP-51563-AU            | Hexagon Metrology AB   | 20.11.2007<br>(05.05.2009) | 2007/323665                         | 28.05.2009       | AU 2007323665 A1   | 27.03.2014        | AU 2007323665 B2 | Patent in force     |
| CA      | KZP-51563-CA            | Hexagon Metrology AB   | 20.11.2007<br>(15.05.2009) | 2,669,878                           | 06.10.2009       | CA 2,669,878 A1    |                   |                  | Application pending |
| EP      | KIP-51563-EP            | Hexagon Metrology AB   | 20.11.2007<br>(16.06.2009) | 07864697.3                          | 26.08.2009       | EP 1 092 269 A2    |                   |                  | Application pending |
| JP      | KZP-51563-JP            | Hexagon Metrology AB   | 20.11.2007<br>(21.07.2009) | 2009-538502                         | 02.04.2010       | JP 2010-510527 A   |                   |                  | Application pending |

Expired applications:

US 647660.239 (KZP-51563-USP)  
PCT/US2007/085315 (KZP-51563-WO)priority application  
national/regional stage entry in AU, CA, EP and JP

PATENT

REEL: 051801 FRAME: 0496

GLUJ - 2016-05-09

- 5 -

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology, Inc. / Oceanside

Patent Family: KZP-51565

1/14/2015

Patent Family: KZP-51565  
Title: Coordinate Measuring Machine  
Entity of Origin: Hexagon Metrology, Inc. / Oceanside, CA  
Internal Reference: HEXAG-037  
Applicant: Hexagon Metrology AB  
Inventor: Paul Ferran  
Priority Date: 28.09.2007

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date | Application No. | Publication Date | Publication No.    | Patent Issue Date | Patent No.      | Status          |
|---------|-------------------------|------------------------|-------------|-----------------|------------------|--------------------|-------------------|-----------------|-----------------|
| US      | KZP-51565-US            | Hexagon Metrology AB   | 28.09.2007  | 11/664,392      | 02.04.2009       | US 2009/0083985 A1 | 17.08.2010        | US 7,774,949 B2 | Patent in force |

Hexagon Metrology AB (Owner) Entity of Origin: Hexagon Metrology, Inc. / Oceanside Patent Family: KZP-51566 1/14/2015

Patent Family: KZP-51566  
 Title: Coordinate Measuring Machine with Vibration Detection  
 Entity of Origin: Hexagon Metrology, Inc. / Oceanside, CA  
 Internal Reference: HEXAG.051  
 Applicant: Hexagon Metrology AB  
 Inventor: Hagar Tait  
 Priority Date: 30.06.2009

| Country | Hexagon / KMP Reference | Legal Owner (Register) | Filing Date             | Application No.                 | Publication Date | Publication No.    | Patent Issue Date | Patent No.      | Status              |
|---------|-------------------------|------------------------|-------------------------|---------------------------------|------------------|--------------------|-------------------|-----------------|---------------------|
| US      | KZP-51566-US            | Hexagon Metrology AB   | 28.06.2010              | 12/825,185                      | 30.12.2010       | US 2010/0325907 A1 | 31.01.2012        | US 8,104,189 B2 | Patent in force     |
| US      | KZP-51566-US1           | Hexagon Metrology AB   | 20.12.2011              | 13/331,974 (Continuation of US) | 02.04.2012       | US 2012/0084588 A1 | 17.07.2012        | US 8,220,173 B2 | Patent in force     |
| AU      | KZP-51566-AU            | Hexagon Metrology AB   | 28.06.2010 (18.01.2012) | 2010273749                      | 09.03.2012       | AU 2010273749 A1   |                   |                 | Application pending |
| CA      | KZP-51566-CA            | Hexagon Metrology AB   | 28.06.2010 (23.12.2011) | 2,766,906                       | 13.03.2012       | CA 2,766,906 A1    |                   |                 | Application pending |
| CN      | KZP-51566-CN            | Hexagon Metrology AB   | 28.06.2010 (29.12.2011) | 201080029447.1                  | 23.05.2012       | CN 102472652 A     |                   |                 | Application pending |
| EP      | KIP-51566-EP            | Hexagon Metrology AB   | 28.06.2010 (25.01.2012) | 10800275.9                      | 09.05.2012       | EP 2,449,353 A2    |                   |                 | Application pending |

Expired applications:

US 61/221,973 (KZP-51566-USP)  
 PCT/US2010/0040248 (KZP-51566-WO)  
 priority application  
 national/regional stage entry in AU, CA, CN and EP

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology, Inc. / Oceanside

Patent Family: K2P-51567

1/14/2015

Patent Family: K2P-51567

Title: Computerized Apparatus and Method for Applying Graphics on Surfaces

Entity of Origin: Hexagon Metrology, Inc. / Oceanside, CA (acquired patent family)

Internal Reference: HEXAG.055

Applicant: Dreamscape Interiors, Inc.

Inventors: Robert Lynn Cannell, Alan Hudd, Richard Wilkinson, James Fox

Priority Date: 03.06.2003 \* / 13.04.2007

| Country | Hexagon / K2P Reference | Legal Owner (Register) | Filing Date                | Application No.                   | Publication Date | Publication No.    | Patent Issue Date | Patent No.                                | Status                                          |
|---------|-------------------------|------------------------|----------------------------|-----------------------------------|------------------|--------------------|-------------------|-------------------------------------------|-------------------------------------------------|
| US      | K2P-51567-US2           | Hexagon Metrology AB   | 10.04.2008                 | 12/106,988 *<br>(CIF of US)       | 16.10.2008       | US 2008/0252671 A1 | 28.02.2012        | US 8,123,350 B2                           | Patent in force                                 |
| EP      | K2P-51567-EP            | Hexagon Metrology AB   | 11.04.2008<br>(12.11.2009) | 08745573.9                        | 06.01.2010       | EP 2 139 697 A1    | 19.06.2013        | EP 2 139 697 B1                           | European patent issued and nationally validated |
| CH/EP   | K2P-51567-CH            | Hexagon Metrology AB   | 11.04.2008                 | 08745573.9                        | 06.01.2010       | EP 2 139 697 A1    | 19.06.2013        | EP 2 139 697 B1                           | Patent in force                                 |
| DE/EP   | K2P-51567-DE            | Hexagon Metrology AB   | 11.04.2008                 | 08745573.9<br>(60 2008 025 439.9) | 06.01.2010       | EP 2 139 697 A1    | 19.06.2013        | EP 2 139 697 B1<br>(DE 60 2008 025 439.9) | Patent in force                                 |
| FR/EP   | K2P-51567-FR            | Hexagon Metrology AB   | 11.04.2008                 | 08745573.9                        | 06.01.2010       | EP 2 139 697 A1    | 19.06.2013        | EP 2 139 697 B1                           | Patent in force                                 |
| GB/EP   | K2P-51567-GB            | Hexagon Metrology AB   | 11.04.2008                 | 08745573.9                        | 06.01.2010       | EP 2 139 697 A1    | 19.06.2013        | EP 2 139 697 B1                           | Patent in force                                 |
| NL/EP   | K2P-51567-NL            | Hexagon Metrology AB   | 11.04.2008                 | 08745573.9                        | 06.01.2010       | EP 2 139 697 A1    | 19.06.2013        | EP 2 139 697 B1                           | Patent in force                                 |
| SE/EP   | K2P-51567-SE            | Hexagon Metrology AB   | 11.04.2008                 | 08745573.9                        | 06.01.2010       | EP 2 139 697 A1    | 19.06.2013        | EP 2 139 697 B1<br>(SE 2 139 697 T3)      | Patent in force                                 |

Expired applications:

US 60475 409

US 60911 711

PCT/US2008/059808

(K2P-51567-USP)

(K2P-51567-USF2)

(K2P-51567-WO)

priority application #1 - foreign patent / no Hexagon case

priority application #2

regional stage entry in EP

PATENT

REEL: 051801 FRAME: 0499

GLUJ - 2016-05-09

1/14/2015

Patent Family: K2P-51567

Entry of Origin: Hexagon Metrology, Inc. / Oceanside

Hexagon Metrology AB (Owner)

Further patent:

US 7,044,665 B2

(KPP-51567-US)

foreign patent / no Hexagon case

Lapsed application:

US 11/586,180

(KPP-51567-US1)

divisional of US -- foreign patent / no Hexagon case

- 9 -

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology, Inc. / Rhode Island

Patent Family: KZP-51779

1/14/2015

Patent Family: KZP-51779

Title: Validating the Error Map of a Coordinate Measuring Machine Using a Calibrated Probe

Entity of Origin: Hexagon Metrology, Inc. / North Kingstown, RI (Brown & Sharpe Division)

Internal Reference: B&S B1010.70012

Applicant: Hexagon Metrology AB

Inventor: Peter Hicks

Priority Date: 03.10.2007

| Country | Hexagon / KHP Reference | Legal Owner (Registrant) | Filing Date | Application No. | Publication Date | Publication No.    | Patent Issue Date | Patent No.      | Status          |
|---------|-------------------------|--------------------------|-------------|-----------------|------------------|--------------------|-------------------|-----------------|-----------------|
| US      | KZP-51779-US            | Hexagon Metrology AB     | 03.10.2007  | 11/086,453      | 09.04.2009       | US 2009/0290013 A1 | 11.05.2010        | US 7,712,224 B2 | Patent in force |

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology, Inc. / Rhode Island

Patent Family: KZP-51780

1/14/2015

Patent Family: KZP-51780

Title: Hysteresis Compensation in a Coordinate Measurement Machine

Entity of Origin: Hexagon Metrology, Inc. / North Kingstown, RI (Brown & Sharpe Division)

Internal Reference: B&S E1010.70013

Applicant: Hexagon Metrology AB

Inventors: Richard MacManus, Bruce Pease

Priority Date: 22.12.2005

| Country | Hexagon / EHP Reference | Legal Owner (Register) | Filing Date | Application No.                    | Publication Date | Publication No.    | Patent Issue Date | Patent No.      | Status              |
|---------|-------------------------|------------------------|-------------|------------------------------------|------------------|--------------------|-------------------|-----------------|---------------------|
| US      | KZP-51780-US            | Hexagon Metrology AB   | 22.12.2005  | 11/316,386                         | 28.06.2007       | US 2007/0144022 A1 | 31.07.2007        | US 7,249,421 B2 | Patent in force     |
| US      | KZP-51780-US1           | Hexagon Metrology AB   | 14.06.2007  | 11/762,794<br>(Continuation of US) | 11.06.2009       | US 2009/0150108 A1 | 02.03.2010        | US 7,669,344 B2 | Patent in force     |
| EP      | KZP-51780-EP            | Hexagon Metrology AB   | 21.12.2006  | 06256506.4                         | 27.06.2007       | EP 1 801 537 A2    |                   |                 | Application pending |

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology, Inc. / Rhode Island

Patent Family: KZP-51869

1/14/2015

Patent Family: KZP-51869

Title: Temperature Compensation System for a Coordinate Measuring Machine  
Entity of Origin: Hexagon Metrology, Inc. / North Kingstown, RI (Brown & Sharpe Division)  
Internal Reference: B&S B0917.70027

Applicant: Hexagon Metrology AB  
Inventors: Wilhelmus Weekers, Jens Hupkau, David Payette  
Priority Date: 09.09.2003

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date | Application No.               | Publication Date | Publication No.   | Patent Issue Date | Patent No.      | Status          |
|---------|-------------------------|------------------------|-------------|-------------------------------|------------------|-------------------|-------------------|-----------------|-----------------|
| US      | KZP-51869-US            | Hexagon Metrology AB   | 09.09.2003  | 10/657,903                    |                  |                   | 14.12.2004        | US 6,829,838 B1 | Patent in force |
| US      | KZP-51869-US1           | Hexagon Metrology AB   | 06.12.2004  | 11/007,689 (Divisional of US) | 12.05.2005       | US 2005-007766 A1 | 13.06.2005        | US 7,059,063 B2 | Patent in force |

Hexagon Metrology AB (Owner)      Entity of Origin: Hexagon Metrology, Inc. / Rhode Island      Patent Family: KZP-51873      1/14/2015

Patent Family: KZP-51873  
Title: Bone Gage Head Assembly  
Entity of Origin: Hexagon Metrology, Inc. / North Kingstown, RI (Brown & Sharpe Division)  
Internal Reference: B&S B0918.70001  
Applicant: Brown & Sharpe Manufacturing Co.  
Inventors: Stephen Fouchier, Joseph Couture  
Priority Date: 31.10.2000

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date | Application No. | Publication Date | Publication No. | Patent Issue Date | Patent No.      | Status          |
|---------|-------------------------|------------------------|-------------|-----------------|------------------|-----------------|-------------------|-----------------|-----------------|
| US      | KZP-51873-US            | Hexagon Metrology AB   | 31.10.2000  | 09702,403       |                  |                 | 10.12.2002        | US 6,490,805 B1 | Patent in force |

Expired application:  
PCT/IB2001/002223      (KZP-51873-WO)      no national/regional stage entry

Hexagon Metrology AB (Owner) Entity of Origin: Hexagon Metrology, Inc. / Rhode Island Patent Family: KZP-51874 1/14/2015

Patent Family: KZP-51874  
Title: Vibration Damper for Coordinate Measuring Machine  
Entity of Origin: Hexagon Metrology, Inc. / North Kingstown, RI (Brown & Sharpe Division)  
Internal Reference: S&S B1010.70009  
Applicant: Brown & Sharpe Manufacturing Co.  
Inventors: Paul Carrier, Richard MacManus  
Priority Date: 27.01.1995

| Country | Hexagon / KHP Reference | Legal Owner (Registrar) | Filing Date | Application No. | Publication Date | Publication No. | Patent Issue Date | Patent No.     | Status                                            |
|---------|-------------------------|-------------------------|-------------|-----------------|------------------|-----------------|-------------------|----------------|---------------------------------------------------|
| US      | KZP-51874-US            | Hexagon Metrology AB    | 27.01.1995  | 08.079.882      |                  |                 | 16.07.1996        | US 5,535,524 A | Patent in force, will expire shortly (27.01.2015) |

Expired application:  
PCT/US1996/060175 (KZP-51874-WO) regional stage entry in EP  
Revoked patent:  
EP 0 909 371 B1 (KZP-51874-EP) nationally validated in DE, FR, GB and IT

Hexagon Metrology AB (Owner)      Entity of Origin: Hexagon Metrology, Inc. / Rhode Island      Patent Family: KZP-51876      1/14/2015

Patent Family: KZP-51876  
Title: Temperature Compensation System for a Coordinate Measuring Machine  
Entity of Origin: Hexagon Metrology, Inc. / North Kingstown, RI (Brown & Sharpe Division)  
Internal Reference: B&S 81010.70014  
Applicant: Hexagon Metrology AB  
Inventors: Wilhelmus Weckers, Jens Hupkau, David Payette, John Langlais  
Priority Date: 06.12.2005

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date | Application No. | Publication Date | Publication No. | Patent Issue Date | Patent No.      | Status          |
|---------|-------------------------|------------------------|-------------|-----------------|------------------|-----------------|-------------------|-----------------|-----------------|
| US      | KZP-51876-US            | Hexagon Metrology AB   | 06.12.2005  | 11/294,794      |                  |                 | 30.03.2007        | US 7,191,541 B1 | Patent in force |

Expired application:

PCT/US2006/046294      (KZP-51876-WO)      no national/regional stage entry

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology (Nordic) AB

Patent Family: KZP-51781

1/14/2015

Patent Family: KZP-51781

Title: Measurement Probe for Use in Coordinate Measuring Machines

Entity of Origin: Hexagon Metrology (Nordic) AB, Sweden

Internal Reference: not available

Applicant: Hexagon Metrology AB

Inventor: Bo Pettersson

Priority Date: 28.06.2004

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date | Application No. | Publication Date | Publication No. | Patent Issue Date | Patent No.                             | Status                                          |
|---------|-------------------------|------------------------|-------------|-----------------|------------------|-----------------|-------------------|----------------------------------------|-------------------------------------------------|
| SE      | KZP-51781-SE            | Hexagon Metrology AB   | 28.06.2004  | 0401660-6       | 29.12.2005       | SE 200401660 L  | 31.01.2006        | SE 527 248 C2                          | Patent in force                                 |
| SE      | KZP-51781-SE1           | Hexagon Metrology AB   | 28.06.2004  | 0501311-5       | 29.12.2005       | SE 200501311 L  | 14.02.2006        | SE 517 331 C2                          | Patent in force                                 |
| CN      | KZP-51781-CN            | Hexagon Metrology AB   | 28.06.2005  | 200580321832.0  | 13.02.2008       | CN 101124452 A  | 26.08.2009        | CN 100530583 C (21.200580321832.0)     | Patent in force                                 |
| CN      | KZP-51781-CN1           | Hexagon Metrology AB   | 28.06.2005  | 200580321832.0  | 08.08.2007       | CN 101014836 A  | 31.12.2008        | CN 100447523 C (21.200580321832.0)     | Patent in force                                 |
| EP      | KZP-51781-EP            | Hexagon Metrology AB   | 28.06.2005  | 05754094.0      | 28.03.2007       | EP 1 766 325 A1 |                   |                                        | Application pending                             |
| EP      | KZP-51781-EP1           | Hexagon Metrology AB   | 28.06.2005  | 05754094.0      | 28.03.2007       | EP 1 766 325 A1 | 29.05.2013        | EP 1 766 325 B1                        | European patent issued and nationally validated |
| CH/EP   | KZP-51781-CH1           | Hexagon Metrology AB   | 28.06.2005  | 05754094.0      | 28.03.2007       | EP 1 766 325 A1 | 29.05.2013        | EP 1 766 325 B1                        | Patent in force                                 |
| DE/EP   | KZP-51781-DE1           | Hexagon Metrology AB   | 28.06.2005  | 05754094.0      | 28.03.2007       | EP 1 766 325 A1 | 29.05.2013        | EP 1 766 325 B1 (DE 60 2005 039 806.6) | Patent in force                                 |
| ES/EP   | KZP-51781-ES1           | Hexagon Metrology AB   | 28.06.2005  | 05754094.0      | 28.03.2007       | EP 1 766 325 A1 | 29.05.2013        | EP 1 766 325 B1 (ES 2 425 863 T3)      | Patent in force                                 |
| FR/EP   | KZP-51781-FR1           | Hexagon Metrology AB   | 28.06.2005  | 05754094.0      | 28.03.2007       | EP 1 766 325 A1 | 29.05.2013        | EP 1 766 325 B1                        | Patent in force                                 |
| GB/EP   | KZP-51781-GB1           | Hexagon Metrology AB   | 28.06.2005  | 05754094.0      | 28.03.2007       | EP 1 766 325 A1 | 29.05.2013        | EP 1 766 325 B1                        | Patent in force                                 |

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology (Nordic) AB

Patent Family: KZP-51781

1/14/2015

| Country | Hexagon / KHP Reference | Legal Owner (Registrant) | Filing Date                | Application No.                    | Publication Date | Publication No.    | Patent Issue Date | Patent No.                                | Status              |
|---------|-------------------------|--------------------------|----------------------------|------------------------------------|------------------|--------------------|-------------------|-------------------------------------------|---------------------|
| IT/EP   | KZP-51781-IT1           | Hexagon Metrology AB     | 20.06.2005                 | 05754094.0                         | 28.03.2007       | EP 1 766 325 A1    | 29.05.2013        | EP 1 766 325 B1<br>(IT TO2013 8071454 T2) | Patent in force     |
| SE/EP   | KZP-51781-SE2           | Hexagon Metrology AB     | 20.06.2005                 | 05754094.0                         | 28.03.2007       | EP 1 766 325 A1    | 29.05.2013        | EP 1 766 325 B1<br>(SE 1 766 325 T2)      | Patent in force     |
| JP      | KZP-51781-JP1           | Hexagon Metrology AB     | 20.06.2005<br>(27.12.2006) | 2007-519156                        | 14.02.2008       | JP 2008-504555 A   | 23.06.2010        | JP 4 466 682 B                            | Patent in force     |
| JP      | KZP-51781-JP2           | Hexagon Metrology AB     | 20.06.2005<br>(17.12.2010) | 2010-281742<br>(Divisional of JP1) | 21.04.2011       | JP 2011-081014 A   |                   |                                           | Application pending |
| US      | KZP-51781-US            | Hexagon Metrology AB     | 20.06.2005<br>(23.01.2007) | 11/630 672                         | 14.02.2008       | US 2008/0204601 A1 | 10.03.2009        | US 7,500,319 B2                           | Patent in force     |
| US      | KZP-51781-US1           | Hexagon Metrology AB     | 20.06.2005<br>(27.12.2006) | 11/630 671                         | 20.11.2008       | US 2009/0282564 A1 | 08.12.2009        | US 7,627,936 B2                           | Patent in force     |

Expired applications:

PCT/SE2005/00957 (KZP-51781-W/O)  
PCT/SE2005/00958 (KZP-51781-W/O1)

national/regional stage entry in CN, EP, JP and US  
national/regional stage entry in CN, EP, JP and US

Lapsed application:

JP 2007-519155 (KZP-51781-JP)

- 17 -

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology (Nordic) AB

Patent Family: KZP-51782

1/14/2015

Patent Family: KZP-51782

Title: Measurement Arrangement with a Measurement Head in order to carry out Inspection Measurement

Entity of Origin: Hexagon Metrology (Nordic) AB, Sweden

Internal Reference: not available

Applicant: Hexagon Metrology AB

Inventor: Bo Petersson

Priority Date: 14.02.2008

| Country | Hexagon / IHP Reference | Legal Owner (Register) | Filing Date                | Application No. | Publications Date | Publication No.          | Patent Issue Date | Patent No.    | Status              |
|---------|-------------------------|------------------------|----------------------------|-----------------|-------------------|--------------------------|-------------------|---------------|---------------------|
| SE      | KZP-51782-SE            | Hexagon Metrology AB   | 14.02.2008                 | 0800335-2       | 15.08.2009        | SE 200800335 L           | 20.07.2010        | SE 533 198 C2 | Patent in force     |
| EP      | KZP-51782-EP            | Hexagon Metrology AB   | 30.01.2009<br>(08.09.2010) | 09709579.8      | 10.11.2010        | EP 2 247 916 A1          |                   |               | Application pending |
| IN      | KZP-51782-IN            | Hexagon Metrology AB   | 30.01.2009<br>(15.07.2010) | 5135/DELNP/2010 | 25.02.2011        | IN 5135/DELNP/2010<br>D0 |                   |               | Application pending |

Expired applications:

PCT/SE08/050095 (KZP-51782-WO)

national/regional stage entry in CN, EP, IN and US

Lapsed applications:

CN 200980103240.1 (KZP-51782-CN)

US 12/867,324 (KZP-51782-US)

Hexagon Metrology AB (Owner)

Entry of Origin: Hexagon Metrology (Nordic) AB

Patent Family: KZP-51786

1/14/2015

Patent Family: KZP-51786  
Title: Coordinate Measuring Machine  
Entry of Origin: Hexagon Metrology (Nordic) AB, Sweden  
Internal Reference: not available  
Applicant: Hexagon Metrology AB  
Inventor: Bo Petersson  
Priority Date: 27 04 2004

| Country | Hexagon / KHP Reference | Legal Owner (Registrar) | Filing Date                | Application No. | Publication Date | Publication No.    | Patent Issue Date | Patent No.                            | Status              |
|---------|-------------------------|-------------------------|----------------------------|-----------------|------------------|--------------------|-------------------|---------------------------------------|---------------------|
| SE      | KZP-51786-SE            | Hexagon Metrology AB    | 27 04 2004                 | 0401085-6       | 28 10 2005       | SE 0401085 L       | 28 02 2006        | SE 527 421 C2                         | Patent in force     |
| CN      | KZP-51786-CN            | Hexagon Metrology AB    | 14 04 2005<br>(25 10 2006) | 300580013005.8  | 11 04 2007       | CN 1 946 981 A     | 11 02 2009        | CN 100460803 C<br>(ZL 200580013005.8) | Patent in force     |
| EP      | KZP-51786-EP            | Hexagon Metrology AB    | 14 04 2005<br>(13 11 2006) | 05732009.5      | 14 02 2007       | EP 1 751 489 A1    |                   |                                       | Application pending |
| JP      | KZP-51786-JP            | Hexagon Metrology AB    | 14 04 2005<br>(26 10 2006) | 2007-510650     | 29 11 2007       | JP 2007-534960 A   |                   |                                       | Application pending |
| US      | KZP-51786-US            | Hexagon Metrology AB    | 14 04 2005<br>(23 10 2006) | 11/589,273      | 27 09 2007       | US 2007/0220767 A1 | 22 09 2009        | US 7,591,077 B2                       | Patent in force     |

Expired application:

PCT/SE2005/000540 (KZP-51786-WO)

national/regional stage entry in CN, EP, JP and US

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology (Nordic) AB

Patent Family: KZP-51787

1/14/2015

Patent Family: KZP-51787

Title: Coordinate Measuring Machine

Entity of Origin: Hexagon Metrology (Nordic) AB, Sweden

Internal Reference: n/a available

Applicant: Hexagon Metrology AB

Inventor: Bo Pettersson

Priority Date: 15.12.2004

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date                | Application No. | Publication Date | Publication No.    | Patent Issue Date | Patent No.                            | Status              |
|---------|-------------------------|------------------------|----------------------------|-----------------|------------------|--------------------|-------------------|---------------------------------------|---------------------|
| SE      | KZP-51787-SE            | Hexagon Metrology AB   | 15.12.2004                 | 0403044-1       | 16.06.2006       | SE 0403044 L       | 04.07.2006        | SE 527 899 Q2                         | Patent in force     |
| CN      | KZP-51787-CN            | Hexagon Metrology AB   | 06.12.2005<br>(14.06.2007) | 200580042697.3  | 28.11.2007       | CN 101080607 A     | 25.03.2009        | CN 100471171 C<br>(21.200930042697.3) | Patent in force     |
| EP      | KZP-51787-EP            | Hexagon Metrology AB   | 06.12.2005<br>(12.06.2007) | 05812945.3      | 29.06.2007       | EP 1 925 213 A1    |                   |                                       | Application pending |
| JP      | KZP-51787-JP            | Hexagon Metrology AB   | 06.12.2005<br>(14.06.2007) | 2007-546601     | 10.07.2008       | JP 2008-524580 A   | 30.03.2012        | JP 4 960 481 B                        | Patent in force     |
| US      | KZP-51787-US            | Hexagon Metrology AB   | 06.12.2005<br>(18.06.2007) | 11/791,707      | 29.05.2008       | US 2008-0120860 A1 | 07.04.2009        | US 7,513,059 B2                       | Patent in force     |

Expired application:

PCT/SE2005/001842

(KZP-51787-WO)

national/regional stage entry in CN, EP, JP and US

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology (Nordic) AB

Patent Family: KZP-51788

1/14/2015

Patent Family: KZP-51788  
Title: Method for Welding Work Pieces  
Entity of Origin: Hexagon Metrology (Nordic) AB, Sweden  
Internal Reference: not available  
Applicant: Hexagon Metrology AB  
Inventor: Bo Petersson  
Priority Date: 05.07.2005

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date                | Application No. | Publication Date | Publication No.          | Patent Issue Date | Patent No. | Status              |
|---------|-------------------------|------------------------|----------------------------|-----------------|------------------|--------------------------|-------------------|------------|---------------------|
| EP      | KZP-51788-EP            | Hexagon Metrology AB   | 04.07.2006<br>(15.01.2008) | 06758098.5      | 19.03.2008       | EP 1 899 104 A1          |                   |            | Application pending |
| IN      | KZP-51788-IN            | Hexagon Metrology AB   | 04.07.2006<br>(11.12.2007) | 9559DELNP/2007  | 27.06.2008       | IN 9559/DELNP/2007<br>D0 |                   |            | Application pending |

Expired application:

PCT/SE06/050240

(KZP-51788-WO)

national/regional stage entry in CN, EP, IN, JP, KR and US

Lapsed applications:

SE 0501566-4

(KZP-51788-SE)

priority application

CN 200680024459.9

(KZP-51788-CN)

divisional of CN

CN 201110375522.6

(KZP-51788-CN1)

JP 2008-519238

(KZP-51788-JP)

KR 10-2008-7000711

(KZP-51788-KR)

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology (Nordic) AB

Patent Family: KZP-51789

1/14/2015

Patent Family: KZP-51789

Title: Measurement Method and Measuring Device for Use in Measurement Systems

Entity of Origin: Hexagon Metrology (Nordic) AB, Sweden

Internal Reference: not available

Applicant: Hexagon Metrology AB

Inventor: Bo Pettersson

Priority Date: 04.08.2005

| Country | Hexagon / KHP Reference | Legal Owner (Registrant) | Filing Date                | Application No.  | Publication Date | Publication No.        | Patent Issue Date | Patent No.      | Status              |
|---------|-------------------------|--------------------------|----------------------------|------------------|------------------|------------------------|-------------------|-----------------|---------------------|
| SE      | KZP-51789-SE            | Hexagon Metrology AB     | 04.08.2005                 | 0501777-7        | 05.02.2007       | SE 0501777 L           | 20.11.2007        | SE 529 780 C2   | Patent in force     |
| EP      | KZP-51789-EP            | Hexagon Metrology AB     | 03.08.2006<br>(15.01.2008) | 0676655.9        | 16.04.2008       | EP 1 910 772 A1        |                   |                 | Application pending |
| IN      | KZP-51789-IN            | Hexagon Metrology AB     | 03.08.2006<br>(24.12.2007) | 10053/DELNP/2007 | 20.06.2008       | IN 10053/DELNP/2007 D0 |                   |                 | Application pending |
| US      | KZP-51789-US            | Hexagon Metrology AB     | 03.08.2006<br>(16.01.2008) | 11/995,822       | 21.08.2008       | US 20080196260 A1      | 01.03.2011        | US 7,895,761 E2 | Patent in force     |

Expired application:

PCT/SE2006/050276

(KZP-51789-WO)

national/regional stage entry in CN, EP, IN, JP and US

Lapsed applications:

CN 200680003US 1.4

(KZP-51789-CN)

JP 2008-524943

(KZP-51789-JP)

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology (Nordic) AB

Patent Family: KZP-51790

1/14/2015

Patent Family: KZP-51790

Title: Method for Signal Processing of Capacitive Measurement Scales

Entity of Origin: Hexagon Metrology (Nordic) AB, Sweden

Internal Reference: not available

Applicant: Hexagon Metrology AB

Inventors: Carl-Erik Gustafsson, Sveve Tveit Pedersen, Sven Johannessen

Priority Date: 14.10.2005

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date                | Application No. | Publication Date | Publication No.          | Patent Issue Date | Patent No.                           | Status              |
|---------|-------------------------|------------------------|----------------------------|-----------------|------------------|--------------------------|-------------------|--------------------------------------|---------------------|
| SE      | KZP-51790-SE            | Hexagon Metrology AB   | 14.10.2005                 | 0502272-8       | 15.04.2007       | SE 0502272 L             | 12.06.2007        | SE 529 249 C2                        | Patent in force     |
| CN      | KZP-51790-CN            | Hexagon Metrology AB   | 03.10.2006<br>(14.04.2008) | 20068038091.1   | 15.10.2008       | CN 101287964 A           | 26.10.2011        | CN 101287964 B<br>(ZL 20068038091.1) | Patent in force     |
| EP      | KZP-51790-EP            | Hexagon Metrology AB   | 03.10.2006<br>(24.04.2008) | 06799829.4      | 16.07.2008       | EP 1 943 482 A1          |                   |                                      | Application pending |
| IN      | KZP-51790-IN            | Hexagon Metrology AB   | 03.10.2006<br>(01.04.2008) | 2709/DILNP/2008 | 25.07.2008       | IN 2709/DILNP/2008<br>D0 |                   |                                      | Application pending |
| JP      | KZP-51790-JP            | Hexagon Metrology AB   | 03.10.2006<br>(11.04.2008) | 2006-535494     | 19.03.2009       | JP 2009-511903 A         | 11.04.2012        | JP 4 914 899 B2                      | Patent in force     |
| US      | KZP-51790-US            | Hexagon Metrology AB   | 03.10.2006                 | 12089/914       | 04.12.2008       | US 2009/030088 A1        | 07.06.2011        | US 7,956,622 B2                      | Patent in force     |

Expired application:

PCT/SE2006/030369 (KZP-51790-WO)

national/regional stage entry in CN, EP, IN, JP and US

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology (Nordic) AB

Parent Family: KZP-51791

1/14/2015

Patent Family: KZP-51791

Title: Adjustment Device for a Measuring Probe

Entity of Origin: Hexagon Metrology (Nordic) AB, Sweden

Internal Reference: not available

Applicant: Hexagon Metrology AB

Inventor: Bo Pettersen

Priority Date: 17.11.2005

| Country | Hexagon / KHP Reference | Legal Owner (Rightsholder) | Filing Date                | Application No. | Publication Date | Publication No.       | Patent Issue Date | Patent No.      | Status              |
|---------|-------------------------|----------------------------|----------------------------|-----------------|------------------|-----------------------|-------------------|-----------------|---------------------|
| SE      | KZP-51791-SE            | Hexagon Metrology AB       | 17.11.2005                 | 0502526-7       | 18.05.2007       | SE 0502526 L          | 14.04.2009        | SE 531 462 C2   | Patent in force     |
| CN      | KZP-51791-CN            | Hexagon Metrology AB       | 15.11.2006<br>(15.05.2008) | 200580042539.X  | 19.11.2008       | CN 101310162 A        |                   |                 | Application pending |
| EP      | KZP-51791-EP            | Hexagon Metrology AB       | 15.11.2006<br>(28.05.2008) | 06824543.0      | 30.07.2006       | EP 1 949 028 A1       |                   |                 | Application pending |
| IN      | KZP-51791-IN            | Hexagon Metrology AB       | 15.11.2006<br>(02.04.2008) | 2753/D&LNP/2006 | 25.07.2008       | IN 2753/D&LNP/2006 D0 |                   |                 | Application pending |
| US      | KZP-51791-US            | Hexagon Metrology AB       | 15.11.2006<br>(14.05.2008) | 124992.599      | 23.10.2008       | US 2008/0256814 A1    | 29.03.2011        | US 7,913,537 B2 | Patent in force     |

Expired application:

PCT/SE2006/050474 (KZP-51791-WO)

national/regional stage entry in CN, EP, IN, JP and US

Lapsed application:

JP 2008-541122

(KZP-51791-JP)

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology (Nordic) AB

Patent Family: K2P-51792

1/14/2015

Patent Family: K2P-51792

Title: Method and Device for the Compensation of Geometrical Errors in Machining Machinery  
Entity of Origin: Hexagon Metrology (Nordic) AB, Sweden  
Internal Reference: not available

Applicant: Hexagon Metrology AB

Inventor: Bo Pettersson

Priority Date: 16.11.2006

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date                | Application No. | Publication Date | Publication No.       | Patent Issue Date | Patent No.                            | Status              |
|---------|-------------------------|------------------------|----------------------------|-----------------|------------------|-----------------------|-------------------|---------------------------------------|---------------------|
| SE      | K2P-51792-SE            | Hexagon Metrology AB   | 16.11.2006                 | 0602437-6       | 17.05.2008       | SE 230602437 L        | 06.07.2008        | SE 530 573 C2                         | Patent in force     |
| CN      | K2P-51792-CN            | Hexagon Metrology AB   | 16.11.2007<br>(05.05.2009) | 200780041177.4  | 04.11.2009       | CN 101573209 A        | 14.09.2011        | CN 101573209 B<br>(ZL 200780041177.4) | Patent in force     |
| EP      | K2P-51792-EP            | Hexagon Metrology AB   | 16.11.2007<br>(01.06.2009) | 07835438.8      | 09.09.2009       | EP 2 097 214 A1       |                   |                                       | Application pending |
| IN      | K2P-51792-IN            | Hexagon Metrology AB   | 16.11.2007<br>(24.04.2009) | 2718DELNP/4009  | 19.06.2009       | IN 2718/DELNP/2009 D0 |                   |                                       | Application pending |
| US      | K2P-51792-US            | Hexagon Metrology AB   | 16.11.2007                 | 12/514,151      | 18.02.2010       | US 2010/0042246 A1    | 03.07.2012        | US 8,214,080 B2                       | Patent in force     |

Expired application:

PCT/SE2007/050855 (K2P-51792-WO)

transnational/regional stage entry in CN, EP, IN and US

Hexagon Metrology AB (Owner)

Entry of Origin: Hexagon Metrology (Nordic) AB

Patent Family: KZP-51793

1/14/2015

Patent Family: KZP-51793

Title: Method and Device for the Compensation of Geometrical Errors in Machining Machinery

Entry of Origin: Hexagon Metrology (Nordic) AB, Sweden

Internal Reference: not available

Applicant: Hexagon Metrology AB

Inventor: Bo Pettersson

Priority Date: 21.12.2006

| Country | Hexagon / KHP Reference | Legal Owner (Registrar) | Filing Date                | Application No.   | Publication Date | Publication No.           | Patent Issue Date | Patent No.                                | Status                                          |
|---------|-------------------------|-------------------------|----------------------------|-------------------|------------------|---------------------------|-------------------|-------------------------------------------|-------------------------------------------------|
| SE      | KZP-51793-SE            | Hexagon Metrology AB    | 21.12.2006                 | 0602773-4         | 22.06.2008       | SE 0602773 L              | 19.08.2008        | SE 530 700 C2                             | Patent in force                                 |
| CN      | KZP-51793-CN            | Hexagon Metrology AB    | 16.11.2007<br>(16.06.2009) | 200780046580.2    | 02.12.2009       | CN 101595373 A            | 14.09.2011        | CN 101595373 B<br>(ZL 200780046580.2)     | Patent in force                                 |
| EP      | KZP-51793-EP            | Hexagon Metrology AB    | 16.11.2007<br>(11.06.2009) | 07835440.4        | 02.09.2009       | EP 2 094 437 A1           | 30.04.2014        | EP 2 094 437 B1                           | European patent issued and nationally validated |
| CH/EP   | KIP-51793-CH            | Hexagon Metrology AB    | 16.11.2007                 | 07835440.4        | 02.09.2009       | EP 2 094 437 A1           | 30.04.2014        | EP 2 094 437 B1                           | Patent in force                                 |
| DE/EP   | KIP-51793-DE            | Hexagon Metrology AB    | 16.11.2007                 | 60 2007 036 411.6 | 02.09.2009       | EP 2 094 437 A1           | 30.04.2014        | EP 2 094 437 B1<br>(DE 60 2007 036 411.6) | Patent in force                                 |
| FR/EP   | KZP-51793-FR            | Hexagon Metrology AB    | 16.11.2007                 | 07835440.4        | 02.09.2009       | EP 2 094 437 A1           | 30.04.2014        | EP 2 094 437 B1                           | Patent in force                                 |
| GB/EP   | KZP-51793-GB            | Hexagon Metrology AB    | 16.11.2007                 | 07835440.4        | 02.09.2009       | EP 2 094 437 A1           | 30.04.2014        | EP 2 094 437 B1                           | Patent in force                                 |
| NL/EP   | KZP-51793-NL            | Hexagon Metrology AB    | 16.11.2007                 | 07835440.4        | 02.09.2009       | EP 2 094 437 A1           | 30.04.2014        | EP 2 094 437 B1                           | Patent in force                                 |
| IN      | KZP-51793-IN            | Hexagon Metrology AB    | 16.11.2007<br>(04.06.2009) | 3663/DELNP/2009   | 19.03.2010       | IN 3663/DELNP/2009<br>D30 |                   |                                           | Application pending                             |
| US      | KZP-51793-US            | Hexagon Metrology AB    | 16.11.2007<br>(19.06.2009) | 12/520,427        | 01.04.2010       | US 2010/0078856 A1        |                   |                                           | Application pending                             |

Expired application:

PCT/SE2007/050857 (KZP-51793-WO)

national/regional stage entry in CN, EP, IN and US

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology (Nordic) AB

Patent Family: KZP-51794

1/14/2015

Patent Family: KZP-51794

Title: Method and Device for Exact Measurement of Objects

Entity of Origin: Hexagon Metrology (Nordic) AB, Sweden

Internal Reference: not available

Applicant: Hexagon Metrology AB

Inventor: Bo Petersson

Priority Date: 03.04.2007

| Country | Hexagon / RHP Reference | Legal Owner (Register) | Filing Date                | Application No. | Publication Date | Publication No.       | Patent Issue Date | Patent No.      | Status                                 |
|---------|-------------------------|------------------------|----------------------------|-----------------|------------------|-----------------------|-------------------|-----------------|----------------------------------------|
| CN      | KZP-51794-CN            | Hexagon Metrology AB   | 02.04.2008<br>(28.09.2009) | 200880010347.7  | 03.03.2010       | CN 101663559 A        |                   |                 | Application pending                    |
| EP      | KZP-51794-EP            | Hexagon Metrology AB   | 02.04.2008<br>(12.10.2009) | 08724325.9      | 16.12.2009       | EP 2 130 523 A1       |                   |                 | Application pending                    |
| IN      | KZP-51794-IN            | Hexagon Metrology AB   | 02.04.2008<br>(23.09.2009) | 6106/DELNP/2009 | 14.05.2010       | IN 6106/DELNP/2009 D0 |                   |                 | Application pending                    |
| US      | KZP-51794-US            | Hexagon Metrology AB   | 02.04.2008<br>(01.10.2009) | 12594.293       | 19.08.2010       | US 2010/0308062 A1    | 30.07.2013        | US 8,497,901 E2 | Application pending<br>Patent in force |

Expired application:

PCT/SE2008/00379 (KZP-51794-WO)

national/regional stage entry in CN, EP, IN and US

Lapsed application:

SE 0700830-9

(KZP-51794-SE)

priority application

Hexagon Metrology AB (Owner)

Entity of Origin: C.E. Johansson AB

Patent Family: KZP-51775

1/14/2013

Patent Family: KZP-51775

Title: Method and Device for Testing a Machine Tool

Entity of Origin: C.E. Johansson AB, Sweden (acquired patent family)

Internal Reference: not available

Applicant: Scania CV AB

Inventor: Sven Hjelm

Priority Date: 29.12.1999

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date                | Application No. | Publication Date | Publication No.    | Patent Issue Date | Patent No.                                | Status          |
|---------|-------------------------|------------------------|----------------------------|-----------------|------------------|--------------------|-------------------|-------------------------------------------|-----------------|
| SE      | KZP-51775-SE            | C.E. Johansson AB      | 29.12.1999                 | 9904837-3       |                  |                    | 26.02.2001        | SE 514 469 C2                             | Patent in force |
| IT/EP   | KZP-51775-IT            | C.E. Johansson AB      | 19.12.2000                 | 00569101.1      | 09.10.2002       | EP 1 247 064 A1    | 27.12.2006        | EP 1 247 064 B1<br>(IT TO2000 8000236 IZ) | Patent in force |
| JP      | KZP-51775-JP            | C.E. Johansson AB      | 19.12.2000<br>(28.06.2002) | 2001-549984     | 17.06.2003       | JP 2003-519368 A   | 15.06.2011        | JP 4 704 647 B                            | Patent in force |
| US      | KZP-51775-US            | Scania CV AB           | 19.12.2000<br>(27.06.2002) | 10/169,299      | 19.12.2002       | US 2002/0185379 A1 | 06.04.2004        | US 6,715,572 B2                           | Patent in force |

Expired application:

PCT/SE2000/002578

(KZP-51775-WO)

national/regional stage entry in EP, JP and US

Abandoned patents:

EP 1 247 064 B1

(KZP-51775-EP)

national parts in DE, FR and GB

US 6,725,735 B2

(KZP-51775-US1)

divisional of US

Hexagon Metrology AB (Owner)

Entity of Origin: C.E. Johansson AB

Patent Family: KZP-51783

1/14/2015

Patent Family: KZP-51783

Title: Device for Determining the Dimensions of a Three-Dimensional Object

Entity of Origin: C.E. Johansson AB, Sweden

Internal Reference: not available

Applicant: C.E. Johansson AB

Inventor: Bo Petersson

Priority Date: 09.01.1996

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date                | Application No. | Publication Date | Publication No. | Patent Issue Date | Patent No.                            | Status                                          |
|---------|-------------------------|------------------------|----------------------------|-----------------|------------------|-----------------|-------------------|---------------------------------------|-------------------------------------------------|
| SE      | KZP-51783-SE            | Hexagon Metrology AB   | 09.01.1996                 | 9600078-1       |                  |                 | 12.03.1997        | SE 904 830 C2                         | Patent in force                                 |
| EP      | KZP-51783-EP            | C.E. Johansson AB      | 20.12.1996<br>(24.06.1998) | 96944721.8      | 09.12.1998       | EP 0 882 209 A1 | 28.08.2002        | EP 0 882 209 B1                       | European patent issued and nationally validated |
| DE/EP   | KZP-51783-DE            | C.E. Johansson AB      | 20.12.1996                 | 696 23 335.5    | 09.12.1998       | EP 0 882 209 A1 | 28.08.2002        | EP 0 882 209 B1<br>(DE 696 23 335 T2) | Patent in force                                 |
| FR/EP   | KZP-51783-FR            | C.E. Johansson AB      | 20.12.1996                 | 96944721.8      | 09.12.1998       | EP 0 882 209 A1 | 28.08.2002        | EP 0 882 209 B1                       | Patent in force                                 |
| GB/EP   | KZP-51783-GB            | C.E. Johansson AB      | 20.12.1996                 | 96944721.8      | 09.12.1998       | EP 0 882 209 A1 | 28.08.2002        | EP 0 882 209 B1                       | Patent in force                                 |
| US      | KZP-51783-US            | C.E. Johansson AB      | 20.12.1996<br>(02.07.1998) | 09/101,166      |                  |                 | 12.03.2002        | US 6,354,012 B1                       | Patent in force                                 |

Expired application:

PCT/SE1996/001750 (KZP-51783-WO)

national/regional stage entry in EP and US

Hexagon Metrology AB (Owner)

Entity of Origin: C.E. Johansson AB

Patent Family: KZP-51784

1/14/2015

Patent Family: KZP-51784  
Title: Angle Transducer  
Entity of Origin: C.E. Johansson AB, Sweden  
Internal Reference: not available  
Applicant: C.E. Johansson AB  
Inventors: Bo Petersson, Carl-Erik Gustafsson  
Priority Date: 04.09.2000

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date                | Application No.                   | Publication Date | Publication No.    | Patent Issue Date | Patent No.      | Status              |
|---------|-------------------------|------------------------|----------------------------|-----------------------------------|------------------|--------------------|-------------------|-----------------|---------------------|
| SE      | KZP-51784-SE            | Hexagon Metrology AB   | 04.09.2000                 | 0003110-4                         | 05.03.2002       | SE 0003110 L       | 26.03.2002        | SE 516 952 C2   | Patent in force     |
| EP      | KZP-51784-EP            | C.E. Johansson AB      | 20.08.2001<br>(17.03.2003) | 01958794.8                        | 25.06.2003       | EP 1 520 723 A1    |                   |                 | Application pending |
| JP      | KZP-51784-JP1           | C.E. Johansson AB      | 20.08.2001<br>(09.11.2007) | 2007-291843<br>(Divisional of JP) | 06.03.2008       | JP 2008-051827 A   | 23.03.2012        | JP 4 956 387 B  | Patent in force     |
| US      | KZP-51784-US            | C.E. Johansson AB      | 20.08.2001<br>(04.03.2003) | 10/363,404                        | 11.03.2004       | US 2004/0046546 A1 | 06.09.2005        | US 6,940,278 B2 | Patent in force     |

Expired application:

PCT/SE2001/001773 (KZP-51784-WO) national/regional stage entry in EP, JP and US

Lapsed application:

JP 2002-525451 (KZP-51784-JP)

Hexagon Metrology AB (Owner)

Entity of Origin: C.E. Johansson AB

Patent Family: KZP-51785

1/14/2015

Patent Family: KZP-51785

Title: An Angular Position Measuring Equipment in Robotics, Determining the Angle of the Joints

Entity of Origin: C.E. Johansson AB, Sweden

Internal Reference: not available

Applicant: C.E. Johansson AB

Inventors: Bo Petersson, Carl-Erik Gustafsson

Priority Date: 04.09.2000

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date                | Application No. | Publication Date | Publication No.    | Patent Issue Date | Patent No.                             | Status                                          |
|---------|-------------------------|------------------------|----------------------------|-----------------|------------------|--------------------|-------------------|----------------------------------------|-------------------------------------------------|
| SE      | KZP-51785-SE            | Hexagon Metrology AB   | 04.09.2000                 | 0003111-2       | 05.03.2002       | SE 0003111 L       | 17.12.2002        | SE 518 982 C2                          | Patent in force                                 |
| EP      | KZP-51785-EP            | Hexagon Metrology AB   | 20.08.2001<br>(17.03.2003) | 01961506.1      | 02.07.2003       | EP 1 322 451 A1    | 07.05.2008        | EP 1 322 451 B1                        | European patent issued and nationally validated |
| DE/EP   | KZP-51785-DE            | Hexagon Metrology AB   | 20.08.2001                 | 601 33 909.6    | 02.07.2003       | EP 1 322 451 A1    | 07.05.2008        | EP 1 322 451 B1<br>(DE 601 33 909.6)   | Patent in force                                 |
| FR/EP   | KZP-51785-FR            | Hexagon Metrology AB   | 20.08.2001                 | 01961506.1      | 02.07.2003       | EP 1 322 451 A1    | 07.05.2008        | EP 1 322 451 B1                        | Patent in force                                 |
| GB/EP   | KZP-51785-GB            | Hexagon Metrology AB   | 20.08.2001                 | 01961506.1      | 02.07.2003       | EP 1 322 451 A1    | 07.05.2008        | EP 1 322 451 B1                        | Patent in force                                 |
| IT/EP   | KZP-51785-IT            | Hexagon Metrology AB   | 20.08.2001                 | 01961506.1      | 02.07.2003       | EP 1 322 451 A1    | 07.05.2008        | EP 1 322 451 B1<br>(IT MI3008 9027727) | Patent in force                                 |
| JP      | KZP-51785-JP            | C.E. Johansson AB      | 20.08.2001<br>(03.03.2003) | 2002-524881     | 18.03.2004       | JP 2004-508214 A   | 03.12.2010        | JP 4 638 124 B                         | Patent in force                                 |
| US      | KZP-51785-US            | C.E. Johansson AB      | 20.08.2001<br>(04.03.2003) | 10/363,403      | 12.02.2004       | US 2004/0027139 A1 | 13.09.2005        | US 6,943,563 B2                        | Patent in force                                 |

Expired application:

PCT/SE2001/001774 (KZP-51785-WO) national/regional stage entry in EP, JP and US

Lapsed application:

JP 2006-296704 (KZP-51785-JP1) divisional of JP

Hexagon Metrology AB (Owner)

Entity of Origin: C.E. Johansson AB

Patent Family: KZP-52450

1/14/2015

Patent Family: KZP-52450  
Title: Positioning Device  
Entity of Origin: C.E. Johansson AB, Sweden  
Internal Reference: not available  
Applicant: C.E. Johansson AB  
Inventor: Rudolf Wiklund  
Priority Date: 20.03.1996

| Country | Hexagon / EHP Reference | Legal Owner (Registers) | Filing Date                | Application No. | Publication Date | Publication No. | Patent Issue Date | Patent No.      | Status          |
|---------|-------------------------|-------------------------|----------------------------|-----------------|------------------|-----------------|-------------------|-----------------|-----------------|
| US      | KZP-52450-US            | C.E. Johansson AB       | 19.03.1997<br>(16.09.1998) | 09/142,858      |                  |                 | 23.01.2001        | US 6,176,018 B1 | Patent in force |

Expired application:

PCT/SE1997/000456 (KZP-52450-WO) national/regional stage entry in EP, JP and US

Lapsed applications:

SE 9601069-9 (KZP-52450-SE)  
JP 1997-533405 (KZP-52450-JP) priority application

Abandoned patents:

SE 906 713 C2 (KZP-52450-SE1)  
EP 0 868 523 B1 (KZP-52450-EP) nationally validated in DE, FR, GB and IT

Hexagon Metrology AB (Owner)

Entity of Origin: Tesa SA, CH

Patent Family: KZP-51584

1/14/2015

Patent Family: KZP-51584

Title: Method of Using Multi-Axis Positioning and Measuring System

Entity of Origin: Tesa SA, Switzerland

Internal Reference: Tesa 130

Applicant: Hexagon Metrology AB

Inventors: Pascal Jordil, Bo Petersson, Knut Siercks, Klaus Schneider

Priority Date: 26.03.2007

| Country | Hexagon / KHP Reference | Legal Owner (Region) | Filing Date             | Application No.   | Publication Date | Publication No.    | Patent Issue Date | Patent No.                             | Status                                          |
|---------|-------------------------|----------------------|-------------------------|-------------------|------------------|--------------------|-------------------|----------------------------------------|-------------------------------------------------|
| EP      | KZP-51584-EP            | Hexagon Metrology AB | 26.03.2007              | 07104932.4        | 01.10.2008       | EP 1 975 546 A1    | 15.09.2010        | EP 1 975 546 B1                        | European patent issued and nationally validated |
| CH/EP   | KZP-51584-CH            | Hexagon Metrology AB | 26.03.2007              | 07104932.4        | 01.10.2008       | EP 1 975 546 A1    | 15.09.2010        | EP 1 975 546 B1                        | Patent in force                                 |
| DE/EP   | KZP-51584-DE            | Hexagon Metrology AB | 26.03.2007              | 60 2307 009 188.8 | 01.10.2008       | EP 1 975 546 A1    | 15.09.2010        | EP 1 975 546 B1 (DE 60 2007 009 188.8) | Patent in force                                 |
| FR/EP   | KZP-51584-FR            | Hexagon Metrology AB | 26.03.2007              | 07104932.4        | 01.10.2008       | EP 1 975 546 A1    | 15.09.2010        | EP 1 975 546 B1                        | Patent in force                                 |
| GB/EP   | KZP-51584-GB            | Hexagon Metrology AB | 26.03.2007              | 07104932.4        | 01.10.2008       | EP 1 975 546 A1    | 15.09.2010        | EP 1 975 546 B1                        | Patent in force                                 |
| IT/EP   | KZP-51584-IT            | Hexagon Metrology AB | 26.03.2007              | 07104932.4        | 01.10.2008       | EP 1 975 546 A1    | 15.09.2010        | EP 1 975 546 B1 (IT MI2010 B031171 T2) | Patent in force                                 |
| CN      | KZP-51584-CN            | Hexagon Metrology AB | 25.03.2008              | 200810087627.X    | 01.10.2008       | CN 101275821 A     | 09.11.2011        | CN 101275821 B (ZL 200810087627.X)     | Patent in force                                 |
| HK      | KZP-51584-HK            | Hexagon Metrology AB | 25.03.2008 (09.12.2008) | 08113397.6        | 03.07.2009       | HK 1 124 110 A     | 15.05.2012        | HK 1 124 110 B                         | Patent in force                                 |
| JP      | KZP-51584-JP            | Hexagon Metrology AB | 26.03.2008              | 2008-079545       | 09.10.2008       | JP 2008-341714 A   |                   |                                        | Application to be abandoned                     |
| US      | KZP-51584-US            | Hexagon Metrology AB | 13.03.2008              | 127047.635        | 02.10.2008       | US 2008/0235949 A1 | 16.03.2010        | US 7,676,942 B2                        | Patent in force                                 |

Hexagon Metrology AB (Owner)

Entity of Origin: Tesa SA, CH

Patent Family: KZP-51651

1/14/2015

Patent Family: KZP-51651  
 Title: Oscillating Scanning Probe with Constant Contact Force  
 Entity of Origin: Tesa SA, Switzerland  
 Internal Reference: Tesa 131  
 Applicant: Hexagon Metrology AB  
 Inventors: Pascal Jordil, Bo Pettersen, Knut Siercks  
 Priority Date: 03.04.2007

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date             | Application No. | Publication Date | Publication No.    | Patent Issue Date | Patent No.                         | Status                      |
|---------|-------------------------|------------------------|-------------------------|-----------------|------------------|--------------------|-------------------|------------------------------------|-----------------------------|
| EP      | KZP-51651-EP            | Hexagon Metrology AB   | 03.04.2007              | 07105559.4      | 08.10.2008       | EP 1 978 328 A1    |                   |                                    | Application pending         |
| CN      | KZP-51651-CN            | Hexagon Metrology AB   | 03.04.2008              | 200810090086.6  | 08.10.2008       | CN 101281011 A     | 05.12.2012        | CN 101281011 B (ZL 200810090086.6) | Patent in force             |
| HK      | KZP-51651-HK            | Hexagon Metrology AB   | 02.04.2008 (24.12.2008) | 08113968.3      | 29.05.2009       | HK 1 122 862 A     | 31.05.2013        | HK 1 122 862 B                     | Patent in force             |
| JP      | KZP-51651-JP            | Hexagon Metrology AB   | 03.04.2008              | 2008-096732     | 23.10.2008       | JP 2008-256696 A   |                   |                                    | Application to be abandoned |
| US      | KZP-51651-US            | Hexagon Metrology AB   | 17.03.2008              | 12/040,757      | 09.10.2008       | US 2008/0249737 A1 | 24.08.2010        | US 7,779,553 B2                    | Patent in force             |

Hexagon Metrology AB (Owner)

Entity of Origin: Tesa SA, CH

Patent Family: KZP-51652

1/14/2015

Patent Family: KZP-51652

Title: Scanning Probe with Constant Scanning Speed

Entity of Origin: Tesa SA, Switzerland

Internal Reference: Tesa 132

Applicant: Hexagon Metrology AB

Inventors: Pascal Jordil, Bo Pettersson, Knut Siercke, William Wilcox

Priority Date: 18.04.2007

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date | Application No.   | Publication Date | Publication No.    | Patent Issue Date | Patent No.                             | Status                                          |
|---------|-------------------------|------------------------|-------------|-------------------|------------------|--------------------|-------------------|----------------------------------------|-------------------------------------------------|
| EP      | KZP-51652-EP            | Hexagon Metrology AB   | 18.04.2007  | 07106415.B        | 22.10.2008       | EP 1 983 297 A1    | 07.04.2010        | EP 1 983 297 B1                        | European patent issued and nationally validated |
| CH/EP   | KZP-51652-CH            | Hexagon Metrology AB   | 18.04.2007  | 07106415.B        | 22.10.2008       | EP 1 983 297 A1    | 07.04.2010        | EP 1 983 297 B1                        | Patent in force                                 |
| DE/EP   | KZP-51652-DE            | Hexagon Metrology AB   | 18.04.2007  | 60 2007 005 778.7 | 22.10.2008       | EP 1 983 297 A1    | 07.04.2010        | EP 1 983 297 B1 (DE 60 2007 005 778.7) | Patent in force                                 |
| FR/EP   | KZP-51652-FR            | Hexagon Metrology AB   | 18.04.2007  | 07106415.B        | 22.10.2008       | EP 1 983 297 A1    | 07.04.2010        | EP 1 983 297 B1                        | Patent in force                                 |
| GB/EP   | KZP-51652-GB            | Hexagon Metrology AB   | 18.04.2007  | 07106415.B        | 22.10.2008       | EP 1 983 297 A1    | 07.04.2010        | EP 1 983 297 B1                        | Patent in force                                 |
| CN      | KZP-51652-CN            | Hexagon Metrology AB   | 17.04.2008  | 200610096381.2    | 22.10.2008       | CN 101290212 A     | 05.09.2012        | CN 101290212 B (ZL 200810096381.2)     | Patent in force                                 |
| HK      | KZP-51652-HK            | Hexagon Metrology AB   | 17.04.2008  | 09100255.1        | 05.06.2009       | HK 1 123 092 A     | 25.01.2013        | HK 1 123 092 B                         | Patent in force                                 |
| JP      | KZP-51652-JP            | Hexagon Metrology AB   | 17.04.2008  | 2006-107560       | 16.11.2008       | JP 2008-268210 A   | 29.08.2014        | JP 5 652 344 B2                        | Patent in force                                 |
| US      | KZP-51652-US            | Hexagon Metrology AB   | 21.03.2008  | 12/053,164        | 23.10.2008       | US 2008/0257023 A1 | 19.01.2010        | US 7,647,706 B2                        | Patent in force                                 |

Hexagon Metrology AB (Owner)

Entity of Origin: Tesa SA, CH

Patent Family: KZP-51654

1/14/2015

Patent Family: KZP-51653

Title: Tool Rack for Coordinate Measuring Machine and Corresponding Tool

Entity of Origin: Tesa SA, Switzerland

Internal Reference: Tesa 133

Applicant: Hexagon Metrology AB

Inventors: Pascal Jordii, Benjamin Vuiloud

Priority Date: 05.12.2006

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date                | Application No.   | Publication Date | Publication No.    | Patent Issue Date | Patent No.                             | Status                                          |
|---------|-------------------------|------------------------|----------------------------|-------------------|------------------|--------------------|-------------------|----------------------------------------|-------------------------------------------------|
| EP      | KZP-51653-EP            | Hexagon Metrology AB   | 05.12.2006                 | 06125417.3        | 11.06.2008       | EP 1 930 687 A1    | 23.06.2010        | EP 1 930 687 B1                        | European patent issued and nationally validated |
| CH/EP   | KZP-51653-CH            | Hexagon Metrology AB   | 05.12.2006                 | 06125417.3        | 11.06.2008       | EP 1 930 687 A1    | 23.06.2010        | EP 1 930 687 B1                        | Patent in force                                 |
| DE/EP   | KZP-51653-DE            | Hexagon Metrology AB   | 05.12.2006                 | 60 2006 015 071.7 | 11.06.2008       | EP 1 930 687 A1    | 23.06.2010        | EP 1 930 687 B1 (DE 60 2006 015 071.7) | Patent in force                                 |
| FR/EP   | KZP-51653-FR            | Hexagon Metrology AB   | 05.12.2006                 | 06125417.3        | 11.06.2008       | EP 1 930 687 A1    | 23.06.2010        | EP 1 930 687 B1                        | Patent in force                                 |
| GB/EP   | KZP-51653-GB            | Hexagon Metrology AB   | 05.12.2006                 | 06125417.3        | 11.06.2008       | EP 1 930 687 A1    | 23.06.2010        | EP 1 930 687 B1                        | Patent in force                                 |
| CN      | KZP-51653-CN            | Hexagon Metrology AB   | 22.10.2007                 | 200710194458.5    | 11.06.2008       | CN 101196393 A     | 18.05.2011        | CN 101196393 B (ZL 200710194458.5)     | Patent in force                                 |
| HK      | KZP-51653-HK            | Hexagon Metrology AB   | 22.10.2007<br>(15.10.2008) | 08111406.7        | 13.03.2009       | HK 1 119 763 A     | 28.10.2011        | HK 1 119 763 B                         | Patent in force                                 |
| JP      | KZP-51653-JP            | Hexagon Metrology AB   | 27.11.2007                 | 2007-305551       | 26.06.2008       | JP 2008-145433 A   | 08.02.2013        | JP 5 192 787 B2                        | Patent in force                                 |
| US      | KZP-51653-US            | Hexagon Metrology AB   | 05.06.2007                 | 11/758,262        | 05.06.2008       | US 2008/0132393 A1 | 17.09.2013        | US 8,535,308 B2                        | Patent in force                                 |

Hexagon Metrology AB (Owner)

Entity of Origin: Tesa SA, CH

Patent Family: KZP-51654

1/14/2015

Patent Family: KZP-51654  
Title: Coordinate Measuring Method and Device  
Entity of Origin: Tesa SA, Switzerland  
Internal Reference: Tesa 134  
Applicant: Hexagon Metrology AB  
Inventors: Pascal Jordil, Bo Petersson  
Priority Date: 04.05.2007

| Country | Hexagon / KHP Reference | Legal Owner (Beneficiary) | Filing Date             | Application No. | Publication Date | Publication No.    | Patent Issue Date | Patent No.      | Status              |
|---------|-------------------------|---------------------------|-------------------------|-----------------|------------------|--------------------|-------------------|-----------------|---------------------|
| EP      | KZP-51654-EP            | Hexagon Metrology AB      | 04.05.2007              | 07107540.2      | 05.11.2008       | EP 1 988 357 A1    |                   |                 | Application pending |
| CN      | KZP-51654-CN            | Hexagon Metrology AB      | 04.05.2008              | 200810092020.2  | 05.11.2008       | CN 101298984 A     |                   |                 | Application pending |
| HK      | KZP-51654-HK            | Hexagon Metrology AB      | 04.05.2008 (02.01.2009) | 09100022.3      | 05.06.2009       | HK 1 123 091 A     |                   |                 | Application pending |
| US      | KZP-51654-US            | Hexagon Metrology AB      | 29.04.2008              | 12/111,630      | 06.11.2008       | US 2008/0271332 A1 | 17.03.2009        | US 7,503,125 B2 | Patent in force     |

Lapsed application:

JP 2008-120061 (KZP-51654-JP)

Hexagon Metrology AB (Owner)

Entity of Origin: Tesa SA, CH

Patent Family: KZP-51655

1/14/2015

Patent Family: KZP-51655  
 Title: Modular Calibration  
 Entity of Origin: Tesa SA, Switzerland  
 Internal Reference: Tesa 136  
 Applicant: Hexagon Metrology AB  
 Inventors: Bo Pettersson  
 Priority Date: 26.09.2007

| Country | Hexagon / KHP Reference | Legal Owner (Registrant) | Filing Date             | Application No.   | Publication Date | Publication No.    | Patent Issue Date | Patent No.                             | Status                                          |
|---------|-------------------------|--------------------------|-------------------------|-------------------|------------------|--------------------|-------------------|----------------------------------------|-------------------------------------------------|
| EP      | KZP-51655-EP1           | Hexagon Metrology AB     | 12.03.2008              | 08102554.6        | 01.04.2009       | EP 2 042 829 A1    | 01.01.2014        | EP 2 042 829 B1                        | European patent issued and nationally validated |
| CH/EP   | KZP-51655-CH            | Hexagon Metrology AB     | 12.03.2008              | 08102554.6        | 01.04.2009       | EP 2 042 829 A1    | 01.01.2014        | EP 2 042 829 B1                        | Patent in force                                 |
| DE/EP   | KZP-51655-DE            | Hexagon Metrology AB     | 12.03.2008              | 60 3003 029 601.6 | 01.04.2009       | EP 2 042 829 A1    | 01.01.2014        | EP 2 042 829 B1 (DE 60 2008 029 601.6) | Patent in force                                 |
| FR/EP   | KZP-51655-FR            | Hexagon Metrology AB     | 12.03.2008              | 08102554.6        | 01.04.2009       | EP 2 042 829 A1    | 01.01.2014        | EP 2 042 829 B1                        | Patent in force                                 |
| GB/EP   | KZP-51655-GB            | Hexagon Metrology AB     | 12.03.2008              | 08102554.6        | 01.04.2009       | EP 2 042 829 A1    | 01.01.2014        | EP 2 042 829 B1                        | Patent in force                                 |
| CN      | KZP-51655-CN            | Hexagon Metrology AB     | 25.09.2008              | 200810166398.0    | 06.05.2009       | CN 101424526 A     | 24.07.2013        | CN 101424526 B (ZL 200810166398.0)     | Patent in force                                 |
| HK      | KZP-51655-HK            | Hexagon Metrology AB     | 25.09.2008 (17.07.2009) | 09106540.3        | 06.11.2009       | HK 1 128 756 A     | 29.11.2013        | HK 1 128 756 B                         | Patent in force                                 |
| US      | KZP-51655-US            | Hexagon Metrology AB     | 09.09.2008              | 12/207,250        | 26.03.2009       | US 2009/0082586 A1 | 16.10.2012        | US 8,290,733 B2                        | Patent in force                                 |

Lapsed applications:

EP 07117340.7 (KZP-51655-EP) priority application  
 JP 2008-245102 (KZP-51655-JP)

Hexagon Metrology AB (Owner)

Entity of Origin: Tesa SA, CH

Patent Family: KZP-51656

1/14/2015

Patent Family: KZP-51656  
 Title: Self-Powered Measuring Probe  
 Entity of Origin: Tesa SA, Switzerland  
 Internal Reference: Tesa 137  
 Applicant: Hexagon Metrology AB  
 Inventors: Francois Cabelia, Pascal Jordil  
 Priority Date: 24.04.2008

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date             | Application No.   | Publication Date | Publication No.    | Patent Issue Date | Patent No.                             | Status                                          |
|---------|-------------------------|------------------------|-------------------------|-------------------|------------------|--------------------|-------------------|----------------------------------------|-------------------------------------------------|
| EP      | KZP-51656-EP            | Hexagon Metrology AB   | 24.04.2008              | 08155065.7        | 28.10.2009       | EP 2 112 461 A1    | 24.10.2012        | EP 2 112 461 B1                        | European patent issued and nationally validated |
| CH/EP   | KZP-51656-CH            | Hexagon Metrology AB   | 24.04.2008              | 08155065.7        | 28.10.2009       | EP 2 112 461 A1    | 24.10.2012        | EP 2 112 461 B1                        | Patent in force                                 |
| DE/EP   | KZP-51656-DE            | Hexagon Metrology AB   | 24.04.2008              | 60 2008 019 559.7 | 28.10.2009       | EP 2 112 461 A1    | 24.10.2012        | EP 2 112 461 B1 (DE 60 2008 019 559.7) | Patent in force                                 |
| FR/EP   | KZP-51656-FR            | Hexagon Metrology AB   | 24.04.2008              | 08155065.7        | 28.10.2009       | EP 2 112 461 A1    | 24.10.2012        | EP 2 112 461 B1                        | Patent in force                                 |
| GB/EP   | KZP-51656-GB            | Hexagon Metrology AB   | 24.04.2008              | 08155065.7        | 28.10.2009       | EP 2 112 461 A1    | 24.10.2012        | EP 2 112 461 B1                        | Patent in force                                 |
| CN      | KZP-51656-CN            | Hexagon Metrology AB   | 23.04.2009              | 200910203999.9    | 28.10.2009       | CN 101564818 A     | 13.05.2012        | CN 101564818 B (ZL 200910203999.9)     | Patent in force                                 |
| HK      | KZP-51656-HK            | Hexagon Metrology AB   | 23.04.2009 (11.01.2010) | 10100256.7        | 18.06.2010       | HK 1 135 940 A     | 16.11.2012        | HK 1 135 940 B                         | Patent in force                                 |
| US      | KZP-51656-US            | Hexagon Metrology AB   | 21.04.2009              | 12/427,501        | 29.10.2009       | US 2009/0265946 A1 | 27.12.2011        | US 8,082,674 B2                        | Patent in force                                 |

Lapsed application:

JP 2009-104592

(KZP-51656-JP)

Hexagon Metrology AB (Owner)

Entity of Origin: Tesa Metrology UK

Patent Family: KZP-51919

1/14/2015

Patent Family: KZP-51919  
Title: Optical Surface Measurement Apparatus and Methods  
Entity of Origin: Hexagon Metrology Ltd. (formerly Tesa Metrology Ltd.), United Kingdom  
Internal Reference: BKS B1030.70000  
Applicant: Brown & Sharpe Ltd.  
Inventor: Janusz Andrew Veltze  
Priority Date: 12.03.1997

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date | Application No. | Publication Date | Publication No. | Patent Issue Date | Patent No.      | Status          |
|---------|-------------------------|------------------------|-------------|-----------------|------------------|-----------------|-------------------|-----------------|-----------------|
| US      | KZP-51919-US            | Hexagon Metrology AB   | 11.03.1998  | 09/038,308      |                  |                 | 30.01.2001        | US 6,181,422 B1 | Patent in force |

Lapsed applications:

GB 9705105 (KZP-51919-GB) priority application  
EP 98301852.4 (KZP-51919-EP)

Hexagon Metrology AB (Owner)

Entity of Origin: Hexagon Metrology AB

Patent Family: KZP-51892

1/14/2015

Patent Family: KZP-51891  
Title: Apparatus and Method for Dimensional Metrology  
Entity of Origin: Wilcox Associates, Inc. / Neth Kingstown, RI  
Internal Reference: Wilcox W0550.70000  
Applicant: Hexagon Metrology AB  
Inventors: Anthony Craggs, Charles Burbank, William Wilcox, Kenneth Woodbine  
Priority Date: 17.10.2003

| Country | Hexagon / KHP Reference | Legal Owner (Register) | Filing Date | Application No. | Publication Date | Publication No.    | Patent Issue Date | Patent No.      | Status          |
|---------|-------------------------|------------------------|-------------|-----------------|------------------|--------------------|-------------------|-----------------|-----------------|
| US      | KZP-51891-US            | Hexagon                | 17.03.2003  | 10/687,861      | 21.04.2005       | US 2005/0085940 A1 | 09.04.2013        | US 8,417,370 B2 | patent in force |
| US      | KZP-51891-US2           | Hexagon Metrology AB   | 08.03.2013  | 13/789,759      | 24.10.2013       | US 2013/0282162 A1 | 02.09.2014        | US 8,825,192 B2 | patent in force |

Lapsed applications:

US 11/566,807

(KZP-51891-US1)

continuation of US

PATENT

GLUJ - 2016-05-09

REEL: 051801 FRAME: 0532

Hexagon Metrology AB (Owner)      Entity of Origin: Romer FR      Patent Family: KZP-51559      1/14/2015

Patent Family: KZP-51688  
Title: CONNECTION DEVICE RELATIVE WITH ARM OF HINGED 3-D MEASURING APPARATUS  
Entity of Origin: Romer, FR  
Internal Reference: Romer 8  
Applicant: Hexagon Metrology AB  
Inventors: Granger, Romain  
Priority Date: 29-Oct-03

| Country | Hexagon / KHP Reference | Legal Owner (Register)         | Filing Date | Application No. | Publication Date | Publication No. | Patent Issue Date | Patent No.        | Status          |
|---------|-------------------------|--------------------------------|-------------|-----------------|------------------|-----------------|-------------------|-------------------|-----------------|
| CN      | KZP-51688               | Hexagon Technology Center GmbH | 29-10-2004  | 200410089895.7  | 04-05-2005       | CN 1 611 913 A  | 17-09-2008        | ZL 200410089895.7 | Patent in force |

Hexagon Metrology AB (Owner)

Entity of Origin: Romer US

Patent Family: KZP-51559

1/14/2015

## Patent Family:

KZP-51558

Title: SPATIAL MEASURING DEVICE

## Entity of Origin:

Romer US

## Internal Reference:

Romer HEXAG 603

## Applicant:

Hexagon Metrology AB

## Inventors:

Eaton, Homer

## Priority Date:

22.04.1997

| Country | Hexagon / KZP Reference | Legal Owner (Register)         | Filing Date | Application No. | Publication Date | Publication No. | Patent Issue Date | Patent No.      | Status                      |
|---------|-------------------------|--------------------------------|-------------|-----------------|------------------|-----------------|-------------------|-----------------|-----------------------------|
| BE      | KZP-51558-BE            | Hexagon Metrology AB           | 22.04.1997  | 97922439.1      | 10.02.1999       | EP 0 895 574 A1 | 09.05.2012        | EP 0 895 574 B1 | Patent in force             |
| CA      | KZP-51558-CA            | Hexagon Metrology AB           | 22.04.1997  | 2,252,481       | 30.10.1997       | CA 2,252,481 A1 | 21.03.2006        | CA 2,252,481 C  | Patent in force             |
| CH      | KZP-51558-CH            | Hexagon Technology Center GmbH | 22.04.1997  | 97922439.1      | 10.02.1999       | EP 0 895 574 A1 | 09.05.2012        | EP 0 895 574 B1 | Patent in force             |
| DE      | KZP-51558-DE            | Hexagon Technology Center GmbH | 22.04.1997  | 697 40 415.3    | 10.02.1999       | EP 0 895 574 A1 | 09.05.2012        | EP 0 895 574 B1 | Patent in force             |
| EP      | KZP-51558-EP            | Hexagon Metrology AB           | 22.04.1997  | 97922439.1      | 10.02.1999       | EP 0 895 574 A1 | 09.05.2012        | EP 0 895 574 B1 | patent nationally validated |
| EP      | KZP-51558-EP1           | Hexagon Technology Center GmbH | 22.04.1997  | 10183916.5      | 05.01.2011       | EP 2 270 419 A1 |                   |                 | application published       |
| FR      | KZP-51558-FR            | Hexagon Metrology AB           | 22.04.1997  | 97922439.1      | 10.02.1999       | EP 0 895 574 A1 | 09.05.2012        | EP 0 895 574 B1 | Patent in force             |

Hexagon Metrology AB (Owner)

Entity of Origin: Romer US

Patent Family: KZP-51558

1/14/2015

|    |              |                         |            |            |            |                 |            |                 |                 |
|----|--------------|-------------------------|------------|------------|------------|-----------------|------------|-----------------|-----------------|
| GB | KZP-51558-GB | Hexagon<br>Metrology AB | 22.04.1997 | 97922439.1 | 10.02.1999 | EP 0 895 574 A1 | 09.05.2012 | EP 0 895 574 B1 | Patent in force |
| IT | KZP-51558-IT | Hexagon<br>Metrology AB | 22.04.1997 | 97922439.1 | 10.02.1999 | EP 0 895 574 A1 | 09.05.2012 | EP 0 895 574 B1 | Patent in force |
| NL | KZP-51558-NL | Hexagon<br>Metrology AB | 22.04.1997 | 97922439.1 | 10.02.1999 | EP 0 895 574 A1 | 09.05.2012 | EP 0 895 574 B1 | Patent in force |

Hexagon Metrology AB (Owner)

Entity of Origin: Romer US

Patent Family: KZP-51559

1/14/2015

Patent Family:

KZP-51559

Title: METHOD FOR SPATIALLY LOCATING A TRIHEDRON

Entity of Origin: Romer US

Internal Reference: Romer 1 / 878

Applicant: Hexagon Metrology AB

Inventors: Eaton, Horner

Priority Date: 12.06.1995

| Country | Hexagon / KHP Reference | Legal Owner (Register)         | Filing Date | Application No. | Publication Date | Publication No. | Patent Issue Date | Patent No.      | Status                      |
|---------|-------------------------|--------------------------------|-------------|-----------------|------------------|-----------------|-------------------|-----------------|-----------------------------|
| BE      | KZP-51559-BE            | Hexagon Technology Center GmbH | 12.06.1995  | 95919598.3      | 02.04.1997       | EP 0 765 463 A1 | 10.05.2000        | EP 0 765 463 B1 | Patent in force             |
| DE      | KZP-51559-DE            | Hexagon Technology Center GmbH | 12.06.1995  | 695 16 871.1    | 02.04.1997       | EP 0 765 463 A1 | 10.05.2000        | EP 0 765 463 B1 | Patent in force             |
| EP      | KZP-51559-EP            | Hexagon Technology Center GmbH | 12.06.1995  | 95919598.3      | 02.04.1997       | EP 0 765 463 A1 | 10.05.2000        | EP 0 765 463 B1 | patent nationally validated |
| ES      | KZP-51559-ES            | Hexagon Technology Center GmbH | 12.06.1995  | 95919598.3      | 02.04.1997       | EP 0 765 463 A1 | 10.05.2000        | EP 0 765 463 B1 | Patent in force             |
| FR      | KZP-51559-FR            | Hexagon Technology Center GmbH | 17.06.1994  | 9407462         | 22.12.1995       | FR 2 721 395 A  | 14.08.1996        | FR 2 721 395 B  | patent expired/abandoned    |
| FR      | KZP-51559-FR1           | Hexagon Technology Center GmbH | 12.06.1995  | 95919598.3      | 02.04.1997       | EP 0 765 463 A1 | 10.05.2000        | EP 0 765 463 B1 | Patent in force             |
| GB      | KZP-51559-GB            | Hexagon Technology Center GmbH | 12.06.1995  | 95919598.3      | 02.04.1997       | EP 0 765 463 A1 | 10.05.2000        | EP 0 765 463 B1 | Patent in force             |
| IT      | KZP-51559-IT            | Hexagon Technology Center GmbH | 12.06.1995  | 95919598.3      | 02.04.1997       | EP 0 765 463 A1 | 10.05.2000        | EP 0 765 463 B1 | Patent in force             |

Hexagon Metrology AB (Owner)

Entity of Origin: Koner US

Patent Family: KZP-51558

1/14/2015

|    |              |                                      |            |           |  |            |                |                 |
|----|--------------|--------------------------------------|------------|-----------|--|------------|----------------|-----------------|
| US | KZP-51559-US | Center GmbH                          | 12.06.1995 | 68750,565 |  | 26.05.1998 | US 5,757,499 A | Patent in force |
|    |              | Hexagon<br>Technology<br>Center GmbH |            |           |  |            |                |                 |

Hexagon Metrology AB (Owner)

Entity of Origin: Romar US

Patent Family: KZP-51560

1/14/2015

Parent Family:

KZP-51560

Title: SELF-LOADING SPATIAL REFERENCE POINT ARRAY

Entity of Origin:

Romar US

Internal Reference:

Romar HEXAG.015

Applicant:

Hexagon Metrology AB

Inventors:

Eaton, Romar

Priority Date:

17.04.2001

| Country | Hexagon / KHP Reference | Legal Owner (Register)         | Filing Date | Application No. | Publication Date | Publication No.  | Patent Issue Date | Patent No.      | Status          |
|---------|-------------------------|--------------------------------|-------------|-----------------|------------------|------------------|-------------------|-----------------|-----------------|
| CN      | KZP-51560-CN            | Hexagon Technology Center GmbH | 17.04.2002  | 02808404.7      | 08.12.2004       | CN 1 554 011 A   | 09.05.2007        | ZL 02808404.7   | Patent in force |
| DE      | KZP-51560-DE            | Hexagon Technology Center GmbH | 17.04.2002  | 02762147.3      | 25.02.2004       | EP 1 390 688 A1  | 28.07.2010        | EP 1 390 688 B1 | Patent in force |
| EP      | KZP-51560-EP            | Hexagon Technology Center GmbH | 17.04.2002  | 02762147.3      | 25.02.2004       | EP 1 390 688 A1  | 28.07.2010        | EP 1 390 688 B1 | Patent in force |
| FR      | KZP-51560-FR            | Hexagon Technology Center GmbH | 17.04.2002  | 02762147.3      | 25.02.2004       | EP 1 390 688 A1  | 28.07.2010        | EP 1 390 688 B1 | Patent in force |
| GB      | KZP-51560-GB            | Hexagon Technology Center GmbH | 17.04.2002  | 02762147.3      | 25.02.2004       | EP 1 390 688 A1  | 28.07.2010        | EP 1 390 688 B1 | Patent in force |
| HK      | KZP-51560-HK            | Hexagon Technology Center GmbH | 17.04.2002  | 05104499.3      | 26.08.2005       | HK 1 072 463 A   | 07.09.2007        | HK 1 072 463 B  | Patent in force |
| JP      | KZP-51560-JP            | Hexagon Technology Center GmbH | 17.04.2002  | 2002-581917     | 09.09.2004       | JP 2004-527750 A | 11.07.2007        | JP 3 943 030 B  | Patent in force |

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PATENT

GLUJ - 2016-05-09

REEL: 051801 FRAME: 0538

Hexagon Menology AB (Owner)

Entity of Origin: Komer US

Patent Family: KZP-51553

1/14/2015

|    |              |                                                     |            |            |            |                    |            |                 |                 |
|----|--------------|-----------------------------------------------------|------------|------------|------------|--------------------|------------|-----------------|-----------------|
| NL | KZP-51560-NL | Center GmbH<br>Hexagon<br>Technology<br>Center GmbH | 17.04.2003 | 02762147.3 | 25.02.2004 | EP 1 390 688 A1    | 28.07.2010 | EP 1 390 688 B1 | Patent in force |
| US | KZP-51560-US | Hexagon<br>Technology<br>Center GmbH                | 17.04.2003 | 09836.954  | 10.04.2003 | US 2003/0066202 A1 | 29.07.2003 | US 6,598,306 B2 | Patent in force |

Hexagon Metrology AB (Owner)

Entity of Origin: Romer US

Patent Family: KZP-51562

1/14/2015

Patent Family: KZP-51561  
Title: ARTICULATION MEASURING ARM HAVING ROTATABLE PART-CARRYING PLATEN  
Entity of Origin: Romer US  
Internal Reference: Romer HEXAG.017  
Applicant: Hexagon Metrology AB  
Inventors: Elson, Horner  
Priority Date: 05.02.2003

| Country | Hexagon / KHP Reference | Legal Owner (Register)         | Filing Date | Application No. | Publication Date | Publication No.    | Patent Issue Date | Patent No.      | Status          |
|---------|-------------------------|--------------------------------|-------------|-----------------|------------------|--------------------|-------------------|-----------------|-----------------|
| US      | KZP-51561-US            | Hexagon Technology Center GmbH | 05.02.2003  | 10/361,126      | 05.02.2004       | US 2004/0148791 A1 | 16.11.2004        | US 6,817,108 B2 | Patent in force |

Hexagon Metrology AB (Owner)

Entity of Origin: Romer US

Patent Family: KZP-51562

1/14/2015

Patent Family: KZP-51562  
Title: SPATIAL COORDINATE-BASED METHOD FOR IDENTIFYING WORK PIECES  
Entity of Origin: Romer US  
Internal Reference: Romer HEXAG.018  
Applicant: Hexagon Metrology AB  
Inventors: Eaton, Horner, Schueneman, Douglas P.  
Priority Date: 15.04.2003

| Country | Hexagon / KHP Reference | Legal Owner (Register)         | Filing Date | Application No. | Publication Date | Publication No.    | Patent Issue Date | Patent No.      | Status          |
|---------|-------------------------|--------------------------------|-------------|-----------------|------------------|--------------------|-------------------|-----------------|-----------------|
| US      | KZP-51562-US            | Hexagon Technology Center GmbH | 15.04.2003  | 16/417,420      | 21.10.2004       | US 2004/0210553 A1 | 28.02.2006        | US 7,003,892 B2 | Patent in force |

Lapsed applications:  
US 11/357,442 (KZP-51562-US1)