

UNITED STATES PATENT AND TRADEMARK OFFICE

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BEFORE THE PATENT TRIAL AND APPEAL BOARD

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REVELYST SALES LLC  
Petitioner

v.

BRAINGUARD TECHNOLOGIES INC.  
Patent Owner

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IPR2025-01033  
U.S. Patent No. 9,516,909

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**PETITIONER'S UPDATED EXHIBIT LIST**

## **TABLE OF EXHIBITS**

| <b>Exhibit</b> | <b>Description</b>                                                  |
|----------------|---------------------------------------------------------------------|
| 1001           | U.S. Patent No. 9,516,909 (USP909)                                  |
| 1002           | Declaration of Dr. Stefan Duma                                      |
| 1003           | Prosecution History for U.S. Patent No. 9,516,909 (Knight-909-FH)   |
| 1004           | U.S. Patent Publication No. 2012/0198604 (Weber)                    |
| 1005           | Int'l Patent App. Pub. No. WO 2001/045526 (VonHolst)                |
| 1006           | Int'l Patent App. Pub. No. WO 2011/139224 (Halldin)                 |
| 1007           | U.S. Patent Application Publication No. 2013/0122256 (Kleiven)      |
| 1008           | Reserved                                                            |
| 1009           | U.S. Patent Application Publication No. 2004/0250340 (Piper)        |
| 1010           | U.S. Patent Application Publication No. 2006/0059606 (Ferrara-2006) |
| 1011           | U.S. Patent No. 6,996,856 (Puchalski)                               |
| 1012           | U.S. Patent No. 10,238,162 (Knight-162)                             |
| 1013           | Prosecution History for U.S. Patent No. 10,238,162 (Knight-162-FH)  |
| 1014           | U.S. Provisional Application No, 61/462914 (WeberProv)              |

| Exhibit | Description                                                                                                                                      |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| 1015    | U.S. Provisional Application No. 61/333817 (HalldinProv)                                                                                         |
| 1016    | U.S. Patent Application Publication No. 2008/0066217 (Depreitere)                                                                                |
| 1017    | U.S. Patent No. 3,872,511 (Nichols)                                                                                                              |
| 1018    | U.S. Patent Application No 2007/0190293 (Ferrara-2007)                                                                                           |
| 1019    | U.S. Patent Application No. 2007/0068755 (Hawkins)                                                                                               |
| 1020    | Int'l Patent App. Pub. WO 2008/046196 (Cipton)                                                                                                   |
| 1021    | Pons-Poblet, <i>The Vierendeel Truss: Past And Present Of An Innovative Typology</i> , 15 <i>Arquitetura Revista</i> 193 (2019) (Pons-Poblet)    |
| 1022    | Kis et al., <i>Rotational Acceleration Measurements –Evaluating Helmet Protection</i> , 31 <i>Can. J. Neurol. Sci.</i> 499 (2004) (Kis-2004)     |
| 1023    | Int'l Patent App. Pub. No. WO 1996/014768 (Phillips)                                                                                             |
| 1024    | U.S. Patent Application Publication No. 2001/0032351 (Nakayama)                                                                                  |
| 1025    | Newman, <i>Modern Sports Helmet – Their History, Science, and Art</i> (2007) (Newman)                                                            |
| 1026    | Kleiven, <i>A Parametric Study of Energy Absorbing Foams For Head Injury Prevention</i> , Technical Paper Number 07-0385, 20 <sup>th</sup> Int'l |

| Exhibit | Description                                                                                                                                                                                                                                                                           |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Tech. Conf. on Enhanced Safety of Vehicles (June 18-21, 2007)<br>(Kleiven-2007)                                                                                                                                                                                                       |
| 1027    | Reserved                                                                                                                                                                                                                                                                              |
| 1028    | <i>Aare, A New Laboratory Rig for Evaluating Helmets Subject to Oblique Impacts</i> , 4 Traffic Injury Prevention 240 (2003) (Aare-2003)                                                                                                                                              |
| 1029    | U.S. Provisional App. No. 61/510,401 (401Prov)                                                                                                                                                                                                                                        |
| 1030    | U.S. Patent No. 8,863,319 (USP319)                                                                                                                                                                                                                                                    |
| 1031    | Bosch, <i>Crash helmet testing and design specifications</i> (Jan. 1, 2006)<br>(Ph.D. Thesis, Eindhoven University of Technology) (Bosch)                                                                                                                                             |
| 1032    | Mills & Gilchrist, <i>Bicycle Helmet Design</i> , 220 Proceedings of the Institution of Mechanical Engineers Part L Journal of Materials Design and Applications 167 (2006) (Mills-2006)                                                                                              |
| 1033    | Smith, <i>Diffuse Axonal Injury in Head Trauma</i> , 18 J. Head Trauma Rehab. 307 (2003) (Smith-2003)                                                                                                                                                                                 |
| 1034    | Jans, <i>Bike Helmet Anatomy</i> , <a href="https://www.jans.com/anatomy-of-a-bike-helmet?srsltid=AfmBOooriodHXEC54CbWtD0foK5WSXu8-gN0vaAh1lq96kCKdGHJ68FJ">https://www.jans.com/anatomy-of-a-bike-helmet?srsltid=AfmBOooriodHXEC54CbWtD0foK5WSXu8-gN0vaAh1lq96kCKdGHJ68FJ</a> (Jans) |

| Exhibit | Description                                                                                                                                                                                                                                         |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1035    | Reserved                                                                                                                                                                                                                                            |
| 1036    | International Polymer Solutions Inc., <i>Polycarbonate</i> ,<br><a href="https://www.ipolymer.com/pdf/Polycarbonate.pdf">https://www.ipolymer.com/pdf/Polycarbonate.pdf</a> (Intl-Polymer-Solutions)                                                |
| 1037    | Universal Foam Products, Physical Properties of Expanded Polystyrene, <a href="https://univfoam.com/wp-content/uploads/2015/07/EPS-Data-Sheet.pdf">https://univfoam.com/wp-content/uploads/2015/07/EPS-Data-Sheet.pdf</a> (Universal-Foam-Products) |
| 1038    | Duma, <i>Analysis of Real-time Head Accelerations in Collegiate Football Players</i> , 15 Clin. J. Sports Med. 3 (2005) (Duma-2005)                                                                                                                 |
| 1039    | Ommaya, <i>Chapter 13: Biomechanics of Head Injury: Experimental Aspects</i> , in <i>The Biomechanics of Trauma</i> 245 (1985) (Ommaya-1985)                                                                                                        |
| 1040    | Viano, <i>Injury Biomechanics Research: An Essential Element in the Prevention of Trauma</i> , 22 J. Biomechanics 403 (1989) (Viano-1989)                                                                                                           |
| 1041    | English Translation of Japanese Unexamined Patent Application Publication No. JP2006-016740 (Dotsuko)                                                                                                                                               |

| Exhibit | Description                                                                                                                                                                                        |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1042    | Japanese Unexamined Patent Application Publication No. JP2006-016740 (Dotsuko-Original-Japanese)                                                                                                   |
| 1043    | U.S. Patent No. 5,353,437 (Field)                                                                                                                                                                  |
| 1044    | U.S. Patent No. 5,129,108 (Copeland)                                                                                                                                                               |
| 1045    | U.S. Patent No. 4,012,794 (Noniyama)                                                                                                                                                               |
| 1046    | U.S. Patent No. 7,770,239 (Goldman)                                                                                                                                                                |
| 1047    | U.S. Patent Application Publication No. 2004/0117896 (Madey)                                                                                                                                       |
| 1048    | U.S. Patent Application Publication No. 2013/0019384 (Knight-384)                                                                                                                                  |
| 1049    | EPSOLE, <i>What Is EPS Material: The Complete Guide to EPS Material</i> (April 15, 2024), <a href="https://epsole.com/what-is-eps-material/">https://epsole.com/what-is-eps-material/</a> (Epsole) |
| 1050    | Reserved                                                                                                                                                                                           |
| 1051    | Notice of Petitioner's <i>Sotera</i> Stipulation                                                                                                                                                   |