

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

3D Systems Corporation et al.,

Petitioner

v.

Intrepid Automation, Inc.,
Patent Owner.

Inter Partes Review (IPR) Proceeding Number: 2025-01242
U.S. Patent No. 11,338,511

Title: 11,338,511 ('511 PATENT) Updated Exhibit List

Date of Filing: July 29, 2025

Filed By: Petitioner 3D Systems Corporation et al.,

EXHIBIT LIST

Exhibit No.	Reference
1001	U.S. Patent No. 11,338,511 (“’511 Patent”)
1002	Excerpts from the Prosecution History of the ’511 Patent (the “Prosecution History”) • PPH Request (dated May 24, 2021) • PPH Request Decision (dated July 9, 2021) • Subsequent PPH Request and IDS (dated July 14, 2021) • Subsequent PPH Request Decision (dated July 16, 2021) • Non-Final Office Action (dated September 2, 2021) • Applicant-Initiated Interview Summary (from interview held on December 6, 2021) • Terminal Disclaimer and Approval of Terminal Disclaimer (dated December 20, 2021) • Response (dated December 20, 2021) • Notice of Allowance (dated January 28, 2022) • Rule 312 Amendment (dated February 28, 2022) • Additional IDS (dated March 8, 2022) • Issue Fee Payment (dated April 19, 2022) • Issue Notification (dated May 4, 2022)
1003	Yong Chen, Ph.D. Declaration
1004	U.S. Patent No. 8,666,142, “System and Method for Manufacturing” (“Shkolnik”)
1005	International Patent Application Publication WO 2017/154564 A1, “Three-Dimensional Shaping Device” (“Sekine”) – translated to English and including declaration of Eric Vance (translator)
1006	U.S. Patent Application Publication No. 2017/0102679, “Sub-Pixel Grayscale Three-Dimensional Printing” (“Greene”)
1007	Paul F. Jacobs, “Fundamentals of Stereolithography,” <i>Proceedings of the 1992 International Solid Freeform Fabrication Symposium</i> , pages 196-211 (“Jacobs”)
1008	C. Groth <i>et al.</i> , Three-Dimensional Printing Technology, VOLUME XLVIII NUMBER 8 © 2014 JCO, Inc. (“Groth”)
1009	U.S. Patent 8,102,332 (“Intensity Scaling for Multi-Projector Displays”)

1010	Song <i>et al.</i> , “A new edge blending paradigm for multi-projector tiled display wall,” <i>2010 International Conference on Computer Application and System Modeling (ICCASM 2010)</i> , Taiyuan, 2010, pp. V5-349-V5-352, doi: 10.1109/ICCASM.2010.5620133
1011	Brown and Lowe, “Automatic panoramic image stitching using invariant features,” <i>International Journal of Computer Vision</i> , 74 (2007): 59-73
1012	U.S. Patent 6,456,339 B1 (“Super Resolution Display”)
1013	U.S. Patent 7,079,157 B2 (“Matching the Edges of Multiple Overlapping Screen Images”)
1014	Garcia-Dorado and Cooperstock, “Fully automatic multi-projector calibration with an uncalibrated camera,” <i>CVPR 2011 WORKSHOPS</i> , Colorado Springs, CO, USA, 2011, pp. 29-36, doi: 10.1109/CVPRW.2011.5981726
1015	Harville <i>et al.</i> , “Practical Methods for Geometric and Photometric Correction of Tiled Projector,” <i>2006 Conference on Computer Vision and Pattern Recognition Workshop (CVPRW '06)</i> , New York, NY, USA, 2006, pp. 5-5, doi: 10.1109/CVPRW.2006.161
1016	U.S. Patent 7,443,364 B2 (“Projection of Overlapping Sub-Frames onto a Surface”)
1017	U.S. Patent 7,907,792 B2 (“Blend Maps for Rendering an Image Frame”)
1018	U.S. Patent 7,292,207 B1 (“Computing Blending Functions for the Tiling of Overlapping Video Projectors”)
1019	U.S. Patent 8,427,391 B2 (“Configurable Imaging System”)
1020	U.S. Patent 8,446,431 B2 (“DLP Edge Blending Artefact Reduction”)
1021	U.S. Patent Application Publication No. 2013/0269882 A1 (“Tiled Display Rotational Assembly”)
1022	U.S. Patent Application Publication No. 2013/0278840 A1 (“System and Method for Image Aspect Preservation in Multiple Projector Alignment”)
1023	U.S. Patent Application Publication No. 2013/0321475 A1 (“Zonal Illumination for High Dynamic Range Projection”)
1024	U.S. Patent Application Publication No. 2016/0046075 A1 (“Three-Dimensional Printing with Supported Build Plates”)
1025	Y. Chen <i>et al.</i> , “Digital Material Fabrication Using Mask-Image-Projection-Based Stereolithography,” <i>Rapid Prototyping Journal</i> , Vol. 19(3), 2013

1026	Y. Chen <i>et al.</i> , “Hopping Light Vat Photopolymerization for Multiscale Fabrication,” <i>Small</i> , Vol. 19(11), 2205784, 2023
1027	Y. Chen <i>et al.</i> , “Smooth Surface Fabrication Based on Controlled Meniscus and Cure Depth in Microstereolithography,” <i>Journal of Micro- and Nano-Manufacturing</i> , Vol. 3, September 2015
1028	European Patent Application Publication No. EP 3,053,729 A1, “Method for exposing a photo polymerizable material for solidification of material layer by layer to build a 3D object” (“Jørgensen”)
1029	Yi <i>et al.</i> , “Delta DLP 3-D Printing of Large Models,” <i>IEEE Transactions on Automation Science and Engineering</i> , Vol. 15, No. 3 (DOI: 10.1109/TASE.2017.2751664) (“Yi”)
1030	Defendants 3D Systems Corporation and 3D Systems, Inc.’s Notice Relating to Inter Partes Review (IPR) Petitions of U.S. Patent Nos. 11,014,301 (’301 PATENT) AND 11,338,511 (’511 PATENT)