

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

INARI AGRICULTURE, INC.,
Petitioner,

v.

CORTEVA AGRISCIENCE LLC,
Patent Owner.

Case No. IPR2024-01014
Patent No. 8,901,378

NOTICE OF FILING PETITIONER'S DEMONSTRATIVE EXHIBITS

LISTING OF EXHIBITS

Exhibit	Description
1001	U.S. Patent No. 8,901,378
1002	Prosecution History of U.S. Patent No. 8,901,378
1003	Prosecution History of European Patent Application No. 04 751 097.9
1004	Prosecution History of European Patent Application No. 15 168 051.9
1005	Provisional Application No. 60/467,772
1006	Non-Provisional Application No. 10/837,105 (“April 2004 Application”)
1007	Declaration of Aron Silverstone (“Silverstone”)
1008	Curriculum Vitae of Aron Silverstone
1009	U.S. Patent Publication No. 20060037095 (“Barbour”)
1010	https://www.corteva.com/who-we-are/our-history.html
1011	U.S. Department of Agriculture Budget Summary and Annual Performance Plan 2006
1012	A. Kohli et al., <i>The Quest to Understand the Basis and Mechanisms that Control Expression of Introduced Transgenes in Crop Plants</i> , Plant Signaling & Behavior 1:4, 185-195 (2006)
1013	F Altpeter et al, <i>Particle bombardment and the genetic enhancement of crops: myths and realities</i> , Molecular Breeding 15:305–327 (2005)
1014	<i>Still the seed: plant biotechnology in the twenty-first century</i> , pp. 291-354 in Jack Ralph Kloppenburg Jr., <i>First the Seed: The Political Economy of Plant Biotechnology</i> (Second Edition), 2004
1015	A. Kohli et al, <i>Transgene integration, organization and interaction in plants</i> , Plant Molecular Biology 52:247–258 (2003)
1016	L. Mehlo et al, <i>Structural Analysis of Transgene Rearrangements and Effects on Expression in Transgenic Maize Plants Generated by Particle Bombardment</i> , Maydica 45:277-287 (2000)
1017	March 5, 2024 Deposition of Paul Cristou (Exhibit 1044 in <i>Inari Agriculture, Inc. v. Corteva Agriscience LLC</i> , PGR2023-00022)
1018	U.S. Patent No. 7,179,965
1019	U.S. Patent No. 8,598,413
1020	April 10, 2013 Office Action re: U.S. Patent No. 8,598,413
1021	U.S. Patent No.8,785,728
1022	U.S. Patent No. 8,575,434
1023	Feb. 4, 2013 Office action re: U.S. Patent No. 8,575,434
1024	U.S. Patent No. 8,592,653
1025	U.S. Patent No. 8,062,847

1026	U.S. Patent Publication No. 2010/0167403
1027	January 21, 2004 Declaration of Paul Christou, Ph.D (Exhibit 2012 in <i>Inari Agriculture, Inc. v. Corteva Agriscience, LLC</i> , PGR2023-00022)
1028	U.S. Patent Publication No. 2002/0177526
1029	U.S. Patent No. 6,166,302
1030	U.S. Patent No.5,877,012
1031	M.-J. Cornejo, <i>Activity of a maize ubiquitin promoter in transgenic rice</i> , Plant Molecular Biology 23:567-581 (1993)
1032	DAS-O15O7-1 (TC1507) (“D1” as reflected in EX1003)
1033	Richard M. Twyman et al, <i>Foreign DNA: Integration and Expression in Transgenic Plants</i> , pp. 107-136 in Genetic Engineering: Principles and Methods (Volume 24), Jane K. Setlow, ed. (2002)
1034	C. James, <i>Global Review of Commercialized Transgenic Crops: 2002 Feature: Bt Maize</i> . ISAAA Briefs No. 29. ISAAA: Ithaca, NY (2003), https://www.isaaa.org/resources/publications/briefs/29/download/isaaa-brief-29-2003.pdf
1035	K. He et al., <i>Evaluation of Transgenic Bt Corn for Resistance to the Asian Corn Borer (Lepidoptera: Pyralidae)</i> , J. Econ. Entomol. 96:935-940 (2003)
1036	J. La Paz et al., <i>Interlaboratory Transfer of a Real-Time Polymerase Chain Reaction Assay for Quantitative Detection of Genetically Modified Maize Event TC-1507</i> , Journal of AOAC International, 89:1347-1352 (2006)
1037	May 18, 2001 EPA Registration for Pioneer Brand Seed Corn with Herculex I, https://www3.epa.gov/pesticides/chem_search/ppls/029964-00003-20010518.pdf
1038	U.S. Patent Publication No.2004/0023801
1039	PCT/EP2005/006688 (filed June 21, 2005)
1040	Dow Chemical 10-K for 2003 (February 20, 2004), https://www.sec.gov/Archives/edgar/data/29915/000104746904005078/a2128941z10-k.htm
1041	Dow Chemical 10-K for 2004 (February 18, 2005), https://www.sec.gov/Archives/edgar/data/29915/000104746905004197/a2151917z10-k.htm
1042	Dow Chemical 10-K for 2005 (February 17, 2006), https://www.sec.gov/Archives/edgar/data/29915/000104746906002147/a2167550z10-k.htm

1043	DuPont 10-K for 2005 (February 28, 2006), https://www.sec.gov/Archives/edgar/data/30554/000104746906002614/a2167460z10-k.htm
1044	Strategic Diagnostics Inc. 10-Q (August 14, 2003), https://www.sec.gov/Archives/edgar/data/911649/000095011603003538/ten-q.txt
1045	Strategic Diagnostics Inc. 8-K (August 19, 2003), sec.gov/Archives/edgar/data/911649/000095011603003621/ex99.txt
1046	Exhibit 21 to Corteva, Inc. 10-K (February 8, 2024), https://www.sec.gov/Archives/edgar/data/911649/000095011603003621/ex99.txt
1047	A. Burchett, <i>Bt's new bite</i> , Farm Journal (November 2002)
1048	A. Burchett, <i>Seed corn assembly line</i> , Farm Journal (February 2023)
1049	K. Lamkey, <i>Developing Corn Hybrids With New Traits</i> , Proceedings of Indiana Crop Adviser Conference 2004
1050	A. Burchett, <i>Make Seed Traits Count</i> , Farm Journal (Summer 2005)
1051	<i>Dramatic Advance Makes Testing Grain for Multiple GM Traits Faster - EnviroLogix Introduces the QuickComb Kit</i> (October 16, 2003)
1052	<i>Strategic Diagnostics Announces the Commercial Introduction of its TraitChek Corn Comb Test for Multiple Trait Testing of One Single Common Corn Extraction</i> (Nov. 13, 2003)
1053	ADP France News, French Eurofins German GeneScan Subsidiary Develops DNA Detection Kit (December 19, 2003)
1054	European Commission, Biotechnology & GMOs Unit Institute for Health and Consumer Protection DG Joint Research Centre, <i>Event-specific method for the quantitation of maize line TC1507 using real-time PCR: Validation Report</i> (February 15, 2005), https://gmo-crl.jrc.ec.europa.eu/summaries/TC1507-report_mm.pdf
1055	Canadian Food Inspection Agency, <i>DD2002-41: Determination of the Safety of Dow AgroSciences Canada Inc. and Pioneer Hi-Bred International's Insect Resistant and Glufosinate - Ammonium Tolerant Corn (Zea mays L.) Line 1507</i> , https://inspection.canada.ca/plant-varieties/plants-with-novel-traits/approved-under-review/decision-documents/dd2002-41/eng/1311872961735/1311873078751
1056	M. Heo et al., <i>Detection of Genetically Modified Maize by Multiplex PCR Method</i> , J. Microviol. Bfotechnol., 14:1150-1156 (2004)

1057	T.M. Klein et al., <i>High-velocity microprojectiles for delivering nucleic acids into living cells</i> , Nature 327:70-73 (1997)
1058	U.S Patent No. 6,121,519
1059	E. Irish & T. Nelson, <i>Sex Determination in Monoecious and Dioecious Plants</i> , The Plant Cell, 1:737-744 (1989)
1060	S. Lebel-Hardenack & S. Grant, <i>Genetics of sex determination in flowering plants</i> , Trends in Plant Science, 2:130-136 (1997)
1061	K. D'Halluin, et al., <i>Transgenic Maize Plants by Tissue Electroporation</i> , The Plant Cell, 4:1495-1505 (1992)
1062	T. Michael Spencer, et al., <i>Segregation of transgenes in maize</i> , Plant Molecular Biology, 18:201-210 (1992)
1063	U.S. Patent No. 4,761,373
1064	K Veluthambi et al, <i>The Current Status of Plant Transformation Technologies</i> , Current Science, 84:368-380 (2003)
1065	S.B. Gelvin, <i>Integration of Agrobacterium T-DNA into the Plant Genome</i> , Annual Review of Genetics, 51:195-217 (2017)
1066	M. De Bolle et al., <i>Analysis of the influence of promoter elements and a matrix attachment region on the inter-individual variation of transgene expression in populations of Arabidopsis thaliana</i> , Plant Science 165:169-179 (2003)
1067	F. Jupe et al. <i>The complex architecture and epigenomic impact of plant T-DNA insertions</i> . PLoS Genet. 18:15 (2019)
1068	N. Kleinboelting et al, <i>The Structural Features of Thousands of T-DNA Insertion Sites Are Consistent with a Double-Strand Break Repair-Based Insertion Mechanism</i> , Molecular Plant, 8:1651-1664 (2015)
1069	K. Glowacka et al, <i>An evaluation of new and established methods to determine T-DNA copy number and homozygosity in transgenic plants</i> , Głowacka Plant, Cell & Environment, 39:908-917 (2016)
1070	B. Edwards et al. <i>High-throughput detection of T-DNA insertion sites for multiple transgenes in complex genomes</i> . BMC Genomics 23:685 (2022).
1071	Declaration of Thomas F. Foley [Supplemental Evidence – Not Filed]
1072	Second Amended Complaint (D.I. 158) in <i>Corteva Agriscience LLC et al. v. Inari Agriculture, Inc. et al.</i> , C.A. No. 23-1059-JFM (D. Del.)
1073	Defendants' Public Answer and Affirmative Defenses to Second Amended Complaint (D.I. 169) in <i>Corteva Agriscience LLC et al. v. Inari Agriculture, Inc. et al.</i> , C.A. No. 23-1059-JFM (D. Del.)

1074	Brief for Respondent Pioneer Hi-Bred Int'l, <i>J.E.M. AG Supply, Inc. v. Pioneer Hi-Bred Int'l, Inc.</i> , 534 U.S. 124 (2001) (No. 99-1996) (filed June 2001), 2001 WL 674228
1075	Patent Owner's Preliminary Response, PGR2024-00019 (filed June 26, 2024)
1076	Patent Owner's Preliminary Response, PGR2024-00020 (filed June 26, 2024)
1077	Patent Owner's Preliminary Response, PGR2024-00023 (filed July 17, 2024)
1078	Patent Owner's Preliminary Response, PGR2024-00025 (filed Aug. 22, 2024)
1079	Excerpt from McGraw-Hill Dictionary of Scientific and Technical Terms, Fifth Edition (1994)
1080	U.S. Patent No. 5,082,992
1081	U.S. Patent No. 5,444,178
1082	U.S. Patent No. 5,689,034
1083	MPEP 2411.04 as of April 30, 2004 (<i>i.e.</i> , alleged priority date), https://www.uspto.gov/web/offices/pac/mpep/old/E8R0_2400.pdf
1084	MPEP 2411.04 as of December 2, 2014 (<i>i.e.</i> , issue date), https://www.uspto.gov/web/offices/pac/mpep/old/e9r0/mpep-2400.pdf
1085	Feb. 26, 2025 Transcript of Motion to Dismiss Hearing (D.I. 199) in <i>Corteva Agriscience LLC et al. v. Inari Agriculture, Inc. et al.</i> , C.A. No. 23-1059-JFM (D. Del.)
1086	Transcript of DuPont at BB&T Capital Markets Manufacturing and Materials Conference 2007 – Final (March 22, 2007)
1087	Corteva Agriscience Sourced Technology, https://www.corteva.us/content/dam/dpagco/corteva/na/us/en/files/trait-stewardship/DOC-US-Corteva-Sourced-Technology-Patents.pdf
1088	U.S. Patent No. 7,956,246
1089	U.S. Patent No. 8,592,653
1090	U.S. Patent No. 8,952,223
1091	“Pioneer releases 62 new corn hybrids for 2006 planting - Eleven hybrids contain newly approved Herculex XTRA or Herculex RW insect protection technology”, https://www.seedquest.com/News/releases/2005/november/14148.htm
1092	Prosecution History of U.S. Patent No. 7,956,246
1093	Prosecution History of U.S. Patent No. 8,592,653
1094	Prosecution History of U.S. Patent No. 8,952,223
1095	May 2, 2013 Amendment re: U.S. Patent No. 8,575,434

1096	S. Trapmann et al, <i>Certified reference materials for GMO analysis—more than 25 years of GMO CRM production at EC JRC, Analytical and Bioanalytical Chemistry</i> (2025) 417:2387–2403
1097	ERM-BF418a Certificate of Analysis
1098	Declaration of Charles T. Steenburg in Support of Admission <i>Pro Hac Vice</i>
1099	Declaration of John W. McGrath [Supplemental Evidence – Not Filed]
1100	Transcript of DuPont at BB&T Capital Markets Manufacturing and Materials Conference 2007- ProQuest Transcript [Supplemental Evidence – Not Filed]
1101	Transcript of DuPont at BB&T Capital Markets Manufacturing and Materials Conference 2007 - Lexis Transcript [Supplemental Evidence – Not Filed]
1102	Redline of EX1086 compared to EX1100 (ProQuest copy) [Supplemental Evidence – Not Filed]
1103	Redline of EX1086 compared to EX1101 (Lexis Copy) [Supplemental Evidence – Not Filed]
1104	Redline of EX1101 (Lexis Copy) compared to EX1100 (ProQuest copy) [Supplemental Evidence – Not Filed]
1105	Corporate & Finance, VIQ Transcription Services for Every Industry https://viqsolutions.com/transcription-services/ (accessed July 30, 2025) [Supplemental Evidence – Not Filed]
1106	Petitioner’s Demonstrative Exhibits

Pursuant to 37 CFR § 42.6(e)(4)(ii), and the Board's Hearing Order (Paper 33), Petitioner herewith submits the following Exhibit:

<u>Exhibit</u>	<u>Description</u>
1106	Petitioner's Demonstrative Exhibits

Respectfully submitted,
Inari Agriculture, Inc.

Date: August 21, 2025

/Scott A. McKeown/

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CERTIFICATE OF SERVICE UNDER 37 C.F.R. § 42.6 (E)(4)

I certify that on August 21, 2025, a copy of the foregoing document, including any exhibits filed therewith, is being served via electronic mail, as previously consented to by Patent Owner, upon the following:

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Date: August 21, 2025

/MacAulay Rush/
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