

Filed on behalf of: Giesecke+Devrient GmbH, *et al.*

Filed: August 22, 2025

UNITED STATES PATENT AND TRADEMARK OFFICE

BEFORE THE PATENT TRIAL AND APPEAL BOARD

GIESECKE+DEVRIENT GMBH,
GIESECKE+DEVRIENT CURRENCY TECHNOLOGY GMBH, AND
PAPIERFABRIK LOUISENTHAL GMBH,
Petitioners,

v.

LUMENCO, LLC,
Patent Owner.

Case No. IPR2024-00839
U.S. Patent No. 11,448,863

PETITIONERS' UPDATED EXHIBIT LIST

Pursuant to 37 C.F.R. § 42.63(e), Petitioners Giesecke+Devrient GmbH, Giesecke+Devrient Currency Technology GmbH, and Papierfabrik Louisenthal GmbH., respectfully submits the following updated exhibit list:

UPDATED EXHIBIT LIST

Exhibit	Description
Ex. 1001	U.S. Patent No. 11,448,863 to Raymond (“the ’863 patent”)
Ex. 1002	File History of U.S. Patent No. 11,448,863
Ex. 1003	Declaration of Lambertus Hesselink, Ph.D.
Ex. 1004	U.S. Patent No. 62262767 Provisional
Ex. 1005	DE102010048262A1
Ex. 1006	DE102010048262A1 Official Translation into English (“Fuhse262”)
Ex. 1007	DE102010048262A1 Certificate of translation
Ex. 1008	U.S. Patent No. 10,639,925 to Fuhse (“Fuhse925”)
Ex. 1009	U.S. Patent Application Publication 2014/0367957 (“Jordan”)
Ex. 1010 - 1021	Reserved
Ex. 1022	WO2012048847A1_English (“Fuhse 847”)
Ex. 1023	Reserved
Ex. 1024	Robert Morford, Wu-Sheng Shih, and JoElle Dachsteiner “Press-patterned UV-curable high refractive index coatings”, Proc. SPIE 6123, Integrated Optics: Devices, Materials, and Technologies X,

Exhibit	Description
	612301 (15 February 2006); https://doi.org/10.1117/12.643164 (“Morford”)
Ex. 1025	Reserved
Ex. 1026	Lee R.A., Leech P.W., “Development of Optically Variable Devices for Document Security in CSIRO Journal of the Coatings Association of Australia,” Vol. 42(8), August 2005, p. 22-27.
Ex. 1027	<i>Optics</i> , Hecht, 4th Edition (2002)
Ex. 1028	Saleh and Teich. Fundamentals of Photonics (1st Edn. 1991), Ch. 1
Ex. 1029	Ebewele, R.O. 2000. Polymer Science and Technology 1st ed CRC Press.
Ex. 1030	Franssila, S. Introduction to Microfabrication (1st ed. 2004)
Ex. 1031	Finale coin in the Australian Centenary of Federation Program Featuring an Optically Variable Device
Ex. 1032	New method of producing OVD coins
Ex. 1033	U.S. Patent Application Publication No. 2014/0285892 (“Savage-Vincent”)
Ex. 1034	Leech, P.W., Lee, R.A., and Brett, Sexton, B.A., and Smith, F., “Hot Embossing of Micrographic Elements in Polypropylene,” <i>Microelectronic Engineering</i> 84: 109–113 (2007).
Ex. 1035	Reserved
Ex. 1036	Curriculum Vitae of Lambertus Hesselink
Ex. 1037	Reserved
Ex. 1038	U.S. Pat. App. Pub. No. 2005/0057812 (“Raber”)
Ex. 1039	U.S. Pat. No. 10,859,851 (“Rich”)
Ex. 1040	WO2012048847A1 (“Fuhse847 Native”)
Ex. 1041	Morford_2006_LC Catalog - Item Information (Full Record)

Exhibit	Description
Ex. 1042	Ex. 1042 - Mahalik - Micromanufacturing and Nanotechnology (Chapter 7)
Ex. 1043	WO2012048847A1_Certified Translation
Ex. 1044	Reserved
Ex. 1045	Reserved
Ex. 1046	Lalev, et al., Data preparation for focused ion beam machining of complex three-dimensional structures (2008)
Ex. 1047	U.S. Patent No. 4,761,253 ("Antes")
Ex. 1048	<i>Lumenco, LLC v. Giesecke+Devrient GmbH et al.</i> , Civil Action No. 2:23-cv-00100, Dkt. No. 29 (Aug. 9, 2003) ("Docket Control Order")
Ex. 1049	Reserved
Ex. 1050	File History of U.S. Patent No. 10,189,294 ("294 FH")
Ex. 1051	Declaration of Eric E. Lancaster in support of Petitioners' motion for pro hac vice admission under 37 C.F.R. § 42.10(c)
Ex. 1052	Reserved
Ex. 1053	Reserved
Ex. 1054	Annotations of Ex. 1001 (U.S. Patent No. 10,189,294) by Mikael Lindstrand
Ex. 1055	Transcript of Deposition of Mikael Lindstrand (April 11, 2025)
Ex. 1056	Petitioners' Demonstratives

Dated: August 22, 2025

Respectfully submitted,

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CERTIFICATE OF SERVICE

The undersigned certifies that on August 22, 2025 a true and correct copy of the foregoing **Petitioners' Updated Exhibit List** was served by electronic mail on Patent Owner's counsel of record listed below, pursuant to its Mandatory Notices.

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