

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
OSRAM OPTO SEMICONDUCTORS GMBH	12/18/2019
RECEIVING PARTY DATA	
Name:	OSRAM OLED GMBH
Street Address:	LEIBNIZSTR. 4
City:	REGENSBURG
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17361435
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ATTORNEY DOCKET NUMBER:	EHF-19-1455DIV/369254-695
NAME OF SUBMITTER:	LESLIE J. HOOD
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DATE SIGNED:	06/29/2021
Total Attachments: 12	
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ASSIGNMENT

In consideration of One Dollar and other good and valuable consideration of which receipt is hereby acknowledged, OSRAM Opto Semiconductors GmbH ("Assignor"), a German Corporation, sells and assigns to OSRAM OLED GmbH ("Assignee"), a German Corporation, its successors, assigns, and nominees, all its rights, title, and interest in the inventions in the patent applications in the list attached hereto, and in the patent applications, where each patent application is identified by attorney docket number, priority date, filing date, and application serial number received upon filing, including all provisional applications from which priority is claimed, and all other applications from which priority is claimed, and the right to claim the priority right(s) from all such applications, and all United States, international, and non-United States applications that may claim priority therefrom and include the subject matter disclosed therein, and all Patents, both foreign and domestic, which may be granted therefor, and all divisions, reissues, continuations, and extensions thereof, and authorize and request the various non-United States patent entities and the Commissioner of Patents and Trademarks to issue all Patents on said patent applications or resulting therefrom to Assignee as assignee of Assignor's entire interest, and covenants that Assignor has full right to do so and agrees that Assignor will communicate to Assignee or its representatives any facts known to Assignor respecting said patent applications and have its employees testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths or declarations, and generally do everything possible to aid Assignee, its successors, assigns, and nominees, to obtain and enforce proper patent protection for the inventions contained in the patent applications, in the United States and all other countries.

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Attorney Docket Number	Priority date	Filing date	Application number
2008P16992US01	June 6, 2008	June 3, 2009	16/041,343
2008P17010US01	July 29, 2008	July 15, 2009	15/788,645
2011P04113US	April 7, 2011	March 1, 2012	16/033,419
2011P09009US02	May 25, 2011	May 17, 2016	16/155,634
2011P23643US	November 30, 2011	November 19, 2012	15/649,437
2011P24068WOUS	February 27, 2012	February 18, 2013	14/377,508
2012P07606US	October 4, 2012	September 30, 2013	15/823,431
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2012P18574US	September 27, 2012	September 27, 2013	15/210,174
2012P20134WOUS	April 10, 2013	March 28, 2014	14/780,982
2012P21596US	October 10, 2012	October 8, 2013	15/484,499
2013P00598WOUS	May 28, 2013	May 27, 2014	14/892,242
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2014P01408WOUS	February 20, 2015	February 19, 2016	15/552,258
2014P01458WOUS	November 20, 2014	November 11, 2015	15/527,402
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2015P00391WOUS	September 23, 2015	September 15, 2016	15/761,585
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2015P02479WOUS	April 8, 2016	April 6, 2017	16/090,635
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2015P03052WOUS	May 25, 2016	May 23, 2017	16/303,887
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2015P03076WOUS	May 25, 2016	May 23, 2017	16/303,719
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2015P03081US01	May 13, 2016	May 12, 2017	16/528,307
2015P03082WOUS	May 11, 2016	April 27, 2017	16/099,644
2015P03084US01	May 13, 2016	May 12, 2017	16/452,015
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2016P00227WOUS	May 30, 2016	May 29, 2017	16/098,240
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2016P00345WOUS	July 5, 2016	June 30, 2017	16/315,020
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2016P01001WOUS	July 19, 2016	July 18, 2017	16/081,206
2016P01002WOUS	September 2, 2016	August 28, 2017	16/329,860
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2016P01163US	September 15, 2016	September 15, 2017	15/706,581
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2016P01852US	February 24, 2017	February 22, 2018	15/902,282
2016P01897US	August 12, 2016	August 10, 2017	16/198,814
2016P01897US01	August 12, 2016	August 10, 2017	16/202,182
2016P01897WOUS	August 12, 2016	August 10, 2017	16/302,748
2016P01914WOUS	January 27, 2017	January 23, 2018	16/480,111

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2016P01990WOUS	January 26, 2017	January 24, 2018	16/468,324
2016P01994WOUS	January 31, 2017	January 23, 2018	16/347,891
2016P02004WOUS	March 9, 2017	March 8, 2018	16/490,944
2016P02005WOUS	January 24, 2017	January 24, 2018	16/478,996
2016P02019WOUS	February 8, 2017	January 30, 2018	16/484,541
2016P02020US	March 9, 2017	March 5, 2018	15/911,407
2016P02043WOUS	April 12, 2017	April 10, 2018	16/498,996
2016P02086US	April 5, 2017	April 5, 2018	15/945,830
2016P02099WOUS	December 9, 2016	December 6, 2017	16/349,241
2016P02133WOUS	March 10, 2017	March 9, 2018	16/484,612
2016P02193WOUS	September 16, 2016	September 14, 2017	16/332,712
2016P02195WOUS	October 28, 2016	October 25, 2017	16/335,968
2016P02204WOUS	February 28, 2017	February 27, 2018	16/488,573
2016P02221WOUS	January 24, 2017	January 23, 2018	16/476,863
2016P02223WOUS	April 4, 2017	March 21, 2018	16/500,946
2016P02273US	April 24, 2017	April 23, 2018	15/959,425
2016P02274WOUS	April 4, 2017	March 21, 2018	16/496,075
2016P02312WOUS	January 24, 2017	January 23, 2018	16/479,667
2016P02326WOUS	November 10, 2016	October 26, 2017	16/344,922
2016P02355WOUS	January 19, 2017	January 9, 2018	16/343,989
2016P02390WOUS	February 28, 2017	February 26, 2018	16/479,198
2016P02391WOUS	February 28, 2017	February 20, 2018	16/488,529
2016P02395WOUS	January 25, 2017	January 18, 2018	16/480,071
2016P02396WOUS	March 7, 2017	March 1, 2018	16/471,249
2016P02397WOUS	February 8, 2017	January 31, 2018	16/484,755
2016P02401WOUS	March 8, 2017	March 5, 2018	16/480,966
2016P02403WOUS	February 24, 2017	February 22, 2018	16/482,487
2016P02426WOUS	May 12, 2017	May 9, 2018	16/495,193
2016P02482WOUS	November 25, 2016	November 23, 2017	16/349,243
2016P02516WOUS	February 16, 2017	February 12, 2018	16/348,609
2016P02519WOUS	March 7, 2017	February 28, 2018	16/348,015
2016P02554WOUS	December 19, 2016	December 12, 2017	16/462,349
2016P02555WOUS	December 19, 2016	December 18, 2017	16/462,483
2016P02574WOUS	March 1, 2017	February 27, 2018	16/485,400
2016P02575WOUS	April 18, 2017	April 16, 2018	16/495,144
2016P02578WOUS	March 29, 2017	March 20, 2018	16/498,291
2016P02583WOUS	November 29, 2016	November 29, 2017	16/347,952
2016P02584WOUS	April 20, 2017	April 16, 2018	16/490,171
2016P02585WOUS	March 2, 2017	February 28, 2018	16/488,540
2016P02597WOUS	March 13, 2017	March 12, 2018	16/471,731
2016P02612WOUS	March 7, 2017	March 6, 2018	16/488,571

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2016P02614WOUS	April 4, 2017	March 21, 2018	16/491,483
2016P02649WOUS	March 24, 2017	March 19, 2018	16/489,393
2016P02650WOUS	March 7, 2017	March 5, 2018	16/480,532
2016P02652WOUS	May 29, 2017	May 28, 2018	16/608,455
2016P02653WOUS	March 8, 2017	March 7, 2018	16/487,623
2016P02661WOUS	March 20, 2017	March 16, 2018	16/495,803
2016P02669WOUS	March 3, 2017	March 1, 2018	16/485,412
2016P02670WOUS	March 8, 2017	March 6, 2018	16/491,146
2016P02700WOUS	April 21, 2017	April 19, 2018	16/498,763
2016P02702WOUS	March 1, 2017	February 28, 2018	16/489,726
2016P02703WOUS	March 7, 2017	March 7, 2018	16/492,093
2016P02713WOUS	March 8, 2017	March 6, 2018	16/486,559
2016P02714WOUS	January 17, 2017	January 12, 2018	16/468,085
2016P02730WOUS	December 29, 2016	December 21, 2017	16/471,330
2016P02734WOUS	March 7, 2017	March 5, 2018	16/488,548
2016P02743WOUS	May 10, 2017	May 8, 2018	16/607,226
2016P02744WOUS	April 12, 2017	April 10, 2018	16/604,570
2016P02767WOUS	April 20, 2017	April 18, 2018	16/500,078
2016P02778WOUS	May 10, 2017	May 3, 2018	16/493,438
2016P02791WOUS	April 20, 2017	April 18, 2018	16/604,252
2016P02797WOUS	March 21, 2017	March 19, 2018	16/495,241
2016P02799WOUS	April 19, 2017	April 13, 2018	16/493,062
2016P02803WOUS	February 28, 2017	February 16, 2018	16/489,678
2016P02835WOUS	March 29, 2017	March 20, 2018	16/485,414
2016P02879WOUS	December 30, 2016	December 29, 2017	16/475,064
2016P02880WOUS	March 14, 2017	March 13, 2018	16/493,499
2016P02886US	April 12, 2018	April 12, 2018	15/952,194
2016P02948WOUS	June 1, 2017	May 17, 2018	16/499,490
2016P02949WOUS	April 6, 2017	March 27, 2018	16/498,966
2016P02956US	May 18, 2017	May 16, 2018	15/980,939
2016P02959WOUS	April 12, 2017	March 29, 2018	16/604,573
2016P02960US	March 29, 2017	March 29, 2018	15/940,929
2016P02969WOUS	February 24, 2017	February 22, 2018	16/485,671
2016P02980WOUS	December 19, 2016	December 18, 2017	16/462,628
2016P03014WOUS	December 20, 2016	December 19, 2017	16/467,480
2016P03017WOUS	March 24, 2017	March 20, 2018	16/495,219
2016P03019WOUS	April 13, 2017	March 20, 2018	16/491,184
2016P03053WOUS	July 6, 2017	July 6, 2017	16/311,676
2016P03059WOUS	May 22, 2017	May 16, 2018	16/607,781
2016P03085WOUS	April 21, 2017	April 18, 2018	16/606,538
2016P03124WOUS	May 24, 2017	May 16, 2018	16/604,282

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2016P03151WOUS	June 2, 2017	May 30, 2018	16/612,799
2016P03157WOUS	May 31, 2017	May 17, 2018	16/608,552
2016P03217WOUS	April 4, 2017	April 3, 2018	16/498,331
2016P03244WOUS	June 2, 2017	May 18, 2018	16/615,452
2016P03246WOUS	February 24, 2017	February 22, 2018	16/488,213
2016P03248WOUS	February 24, 2017	February 22, 2018	16/484,232
2016P03249WOUS	February 24, 2017	February 22, 2018	16/480,556
2016P03252WOUS	February 24, 2017	February 22, 2018	16/488,148
2017P00141WOUS	November 29, 2016	November 23, 2017	16/347,168
2017P00154WOUS	June 19, 2017	June 8, 2018	16/611,372
2017P00160WOUS	February 24, 2017	February 22, 2018	16/488,105
2017P00180WOUS	June 1, 2017	May 30, 2018	16/609,374
2017P00224WOUS	May 11, 2017	May 3, 2018	16/604,083
2017P00227WOUS	February 15, 2017	February 2, 2018	16/484,553
2017P00301US	July 10, 2017	July 9, 2018	16/030,714
2017P00426WOUS	March 31, 2017	March 20, 2018	16/498,316
2017P00464US	August 3, 2017	August 1, 2018	16/052,511
2017P00476US	August 2, 2017	August 1, 2018	16/052,554
2017P00714WOUS	April 27, 2017	April 25, 2018	16/608,356
2017P00832WOUS	April 27, 2017	April 26, 2018	16/605,106
2017P00846US	September 7, 2017	August 31, 2018	16/120,094
2017P00887US	July 19, 2017	July 17, 2018	16/037,388
2017P00904US	August 14, 2017	August 10, 2018	16/101,147
2017P00927US	August 31, 2017	August 28, 2018	16/114,921
2017P01049US	October 12, 2017	October 10, 2018	16/156,134
2017P01226US	November 6, 2017	November 6, 2018	16/182,382
2017P01381WOUS	June 8, 2017	June 5, 2018	16/612,857
2017P01513US	November 22, 2017	November 20, 2018	16/195,904
2017P01517US	July 28, 2017	July 27, 2018	16/047,873
2017P01554US	November 23, 2017	November 21, 2018	16/197,939
2017P01575US	November 24, 2017	November 16, 2018	16/193,308
2017P01577US	December 19, 2017	December 17, 2018	16/221,872
2017P01608US	December 22, 2017	December 20, 2018	16/227,789
2017P01629US	November 8, 2017	November 1, 2018	16/177,685
2017P01691US	December 19, 2017	December 18, 2018	16/223,931
2017P01709US	July 28, 2017	July 26, 2018	16/046,173
2017P01717US	March 6, 2018	March 6, 2019	16/294,789
2017P01805US	December 4, 2017	November 30, 2018	16/205,412
2017P01843US	December 20, 2017	December 20, 2018	16/228,588
2017P01864US	December 14, 2017	December 14, 2018	16/221,350
2017P01873US	August 29, 2017	August 24, 2018	16/112,615

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2017P01924WOUS	November 11, 2016	November 10, 2017	16/324,924
2017P01973US	January 24, 2018	January 24, 2019	16/256,897
2017P01974US	January 24, 2018	January 24, 2019	16/256,879
2017P01996US	December 14, 2017	December 14, 2018	16/221,367
2017P02109US	December 20, 2017	December 19, 2018	16/226,199
2017P02168US	January 18, 2018	January 18, 2019	16/252,323
2017P02297US	January 23, 2018	January 22, 2019	16/253,921
2017P02321US	February 27, 2018	February 26, 2019	16/286,100
2017P02347US	February 19, 2018	February 19, 2019	16/279,943
2017P02386US	January 23, 2018	January 23, 2019	16/254,659
2017P02492US	March 14, 2018	March 13, 2019	16/351,787
2017P02493US	May 2, 2018	April 30, 2019	16/398,889
2017P02502US	December 13, 2017	December 11, 2018	16/216,067
2017P02608US	February 19, 2018	February 19, 2019	16/279,108
2017P02623US	March 20, 2018	March 18, 2019	16/355,895
2017P02865US	April 20, 2018	April 11, 2019	16/382,008
2017P03008US	May 15, 2018	May 15, 2019	16/413,490
2017P03012US	April 4, 2018	April 3, 2019	16/374,486
2017P03099US	November 17, 2017	November 9, 2018	16/186,395
2017P03120US	March 29, 2018	March 27, 2019	16/366,558
2017P03147US	May 11, 2018	May 10, 2019	16/409,527
2017P03216US	May 17, 2018	May 10, 2019	16/409,472