

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6352693

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

CONVEYING PARTY DATA

Name	Execution Date
BYLAS DISTRICT ECONOMIC ENTERPRISE, LLC	07/31/2018

RECEIVING PARTY DATA

Name:	INTELLECTUAL VENTURES ASSETS 91 LLC
Street Address:	251 LITTLE FALLS DRIVE
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19808
Name:	INTELLECTUAL VENTURES ASSETS 84 LLC
Street Address:	251 LITTLE FALLS DRIVE
City:	WILMINGTON
State/Country:	DELAWARE
Postal Code:	19808

PROPERTY NUMBERS Total: 22

Property Type	Number
Patent Number:	6348906
Patent Number:	6618030
Patent Number:	6611241
Patent Number:	6370019
Patent Number:	6476783
Patent Number:	6498592
Patent Number:	7592970
Patent Number:	6417825
Patent Number:	6221438
Patent Number:	6227669
Patent Number:	6254246
Patent Number:	6412953
Patent Number:	7633164
Patent Number:	8089158
Patent Number:	8084860

PATENT

Property Type	Number
Patent Number:	7782413
Patent Number:	8451394
Patent Number:	7642552
Patent Number:	6229506
Patent Number:	6229508
Patent Number:	6897855
Patent Number:	7864136

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 3606947551

Email: ivrecording@intven.com

Correspondent Name: INTELLECTUAL VENTURES MANAGEMENT- IP LEGAL

Address Line 1: 3150 139TH AVENUE SE

Address Line 2: BUILDING 4, FLOOR 3

Address Line 4: BELLEVUE, WASHINGTON 98005

NAME OF SUBMITTER:	CARLY WHIMS
SIGNATURE:	/Carly Whims/
DATE SIGNED:	10/15/2020

Total Attachments: 11

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SECURITY INTEREST ADDENDUM

This Security Interest Addendum, effective as of the last date set forth on the signature page hereof, relates to the Patent Sale Agreement, dated as of 11/31, 2018 (the "**PSA**"), by and among, on the one hand, Intellectual Ventures Assets 91 LLC, a Delaware limited liability company with an address at 251 Little Falls Drive, Wilmington, DE 19808 ("**Seller 1**"), Intellectual Ventures Assets 84 LLC, a Delaware limited liability company with an address at 251 Little Falls Drive, Wilmington, DE 19808 ("**Seller 2**") (Seller 1 and Seller 2 together are the "**Sellers**" and individually, each may be referred to as a "**Seller**"), and on the other hand, **BYLAS DISTRICT ECONOMIC ENTERPRISE, LLC**, a limited liability company formed under the laws and constitution of the San Carlos Apache Tribe, with an address of P.O. Box 99, Bylas, AZ 85530 ("**Purchaser**"). Capitalized terms used but not otherwise defined herein will have the meanings assigned to such terms in the PSA.

1. Grant of Security Interest. Purchaser hereby grants Sellers a first priority security interest in all Collateral to secure all present and future payment and performance obligations (collectively, the "**Obligations**") of Purchaser to Sellers or any of Sellers' Affiliates, including, without limitation, Purchaser's obligations under the PSA. "**Collateral**" means the Assigned Patent Rights and the Abandoned Assets, and all proceeds from any monetization thereof or grant of rights thereto, including without limitation, any license, covenant not to sue, standstill, release, waiver, immunity or other right, as well as any products and income of any of the foregoing, including insurance proceeds.

It is understood and agreed that any proceeds of the Assigned Patent Rights and/or Abandoned Assets that are distributed to either Sellers or Purchaser and/or its Affiliates in accordance with the terms and conditions of the PSA are not considered Collateral under this Security Interest Addendum. "**Affiliate**" of either party means another entity which, directly or indirectly, controls, is controlled by, or is under common control with such party, where "control" means ownership or control of at least fifty percent (50%) of the voting power of securities or interests in the entity controlled. The term "control" means possession, direct or indirect, of the power to direct or cause the direction of the management and policies of an entity, whether through the ownership of voting securities, by contract, or otherwise.

2. Filing of Financing Statements. Purchaser authorizes Sellers to file financing statements, amendments, applications for registration, other forms under the Uniform Commercial Code ("**UCC**") describing the Collateral. Sellers will pay all costs of filing any financing, continuation or termination statements and any other UCC filing made with respect to this Security Interest Addendum.

3. Purchaser's Covenant. Purchaser does not currently have and will not allow or grant any superior lien, claim, or security interest in the Collateral other than that created by this Security Interest Addendum, without separate consent in a writing executed by Sellers.

4. Events of Default; Cure Periods. The occurrence of any of the following will, at the option of Sellers, be an "**Event of Default**": (a) any default by Purchaser under this Security Interest Addendum, the PSA, or any of the other Obligations, including, without limitation, any failure to pay amounts owed when due; and/or (b) the cessation of Purchaser's business operations, the insolvency of Purchaser, an admission in writing of its inability to pay debts as they mature, the institution by or against Purchaser of any bankruptcy, reorganization, debt arrangement, assignment for the benefit of creditors, or other proceeding under any bankruptcy or insolvency law or dissolution, receivership, or liquidation proceeding; provided, however, Purchaser shall have the right to cure a default pursuant to part (a) above as follows: (i) if Purchaser fails to make a required payment to a Seller when due pursuant to the PSA, Purchaser shall have one ninety (90) day period following the due date of such payment to make the payment to such Seller, and (ii) if Purchaser breaches the PSA in a manner other than by a late payment, it shall have thirty (30) days from the date of Sellers' notice of the breach to cure such breach.

5. Remedies. Upon the occurrence of an Event of Default, subject to the cure provisions of paragraph 4 above, Sellers will have an immediate right to pursue the remedies provided herein and any other remedies available under applicable laws. Upon the occurrence of an Event of Default, Sellers will have, in addition to all of the rights and remedies at law or in equity, including, without limitation, the remedies of a secured party under the applicable UCC. Purchaser acknowledges that Sellers' giving five (5) calendar days' notice is reasonable in any circumstances where Sellers may be required by law to give Purchaser notice. Sellers are specifically entitled to retain the Assigned Patent Rights and Abandoned Assets to remedy the default. All the rights, privileges, powers and remedies of Sellers are cumulative.

6. Licenses Granted. Any Person taking ownership of the Assigned Patent Rights and/or Abandoned Assets will take title to the Assigned Patent Rights and/or Abandoned Assets subject to all licenses that Sellers and/or any Prior Rights Holders have granted.

7. Expenses; Attorneys' Fees. Purchaser will pay on demand the amount of all costs and expenses incurred by Sellers to protect or enforce its rights with respect to this Security Interest Addendum or the Collateral. The sums agreed to be paid pursuant to this section are secured by this Security Interest Addendum.

[Signature Page Follows]

In witness whereof, intending to be legally bound, the parties have executed this Security Interest Addendum as of the dates set forth below.

PURCHASER:

BYLAS DISTRICT ECONOMIC ENTERPRISE, LLC

By: [Signature]
Name: Harrison Taylor, Jr.
Title: Board President
Signature Date: 7-31-18

SELLER 1:

Intellectual Ventures Assets 91 LLC

By: [Signature]
Name: LIM WESSFELD
Title: AUTHORIZED PERSON
Signature Date: 7-31-18

SELLER 2:

Intellectual Ventures Assets 84 LLC

By: [Signature]
Name: LIM WESSFELD
Title: AUTHORIZED PERSON
Signature Date: 7-31-18

“Assigned Patent Rights”

Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventor(s)
6348906 (09/384063)	US	2/19/2002 (8/26/1999)	Line Scanning Circuit For A Dual-Mode Display James Harold Atherton; Zilan Shen; Alfred Charles Ipri; Roger Green Stewart; Stephen John Connor; Robin Mark Adrian Dawson
JP4572036 (JP2000-572886)	JP	8/20/2010 (9/2/1999)	Line Scanning Circuit For A Dual-Mode Display Stewart Roger Green; Shen Zilan; Dawson Robin Mark Adrian; Atherton James Harold; Ipri Alfred Charles; Connor Stephen John
KR10-0678788 (KR10-2001-7002837)	KR	1/29/2007 (9/2/1999)	Line Scanning Circuit For A Dual-Mode Display Stewart Roger Green; Shen Zilan; Dawson Robin Mark Adrian; Atherton James Harold; Ipri Alfred Charles; Connor Stephen John
KR10-0678787 (KR10-2006-7015116)	KR	1/29/2007 (9/2/1999)	Line Scanning Circuit For A Dual-Mode Display Stewart Roger Green; Shen Zilan; Dawson Robin Mark Adrian; Atherton James Harold; Ipri Alfred Charles; Connor Stephen John
TWI223828 (TW088115220)	TW	11/11/2004 (9/14/1999)	Line Scanning Circuit For A Dual-Mode Display Stewart Roger Green; Shen Zilan; Dawson Robin Mark Adrian; Atherton James Harold; Ipri Alfred Charles; Connor Stephen John
DE69840254.5 (DE69840254.5)	DE	11/26/2008 (9/29/1998)	Active Matrix Display System And Method For Driving The Same Kane Michael Gillis; Atherton James Harold; Stewart Roger Green; Cuomo Frank Paul
FR0905673 (FR98307912.0)	FR	11/26/2008 (9/29/1998)	Active Matrix Display System And Method For Driving The Same Kane Michael Gillis; Atherton James Harold; Stewart Roger Green; Cuomo Frank Paul
GB0905673 (GB98307912.0)	GB	11/26/2008 (9/29/1998)	Active Matrix Display System And Method For Driving The Same Kane Michael Gillis; Atherton James Harold; Stewart Roger Green; Cuomo Frank Paul

DEBTOR: Bylas District Economic Enterprise, LLC
SECURED PARTIES: Intellectual Ventures Assets 91 LLC
 Intellectual Ventures Assets 84 LLC

Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventor(s)
6618030 (09/793933)	US	9/9/2003 (2/27/2001)	Active Matrix Light Emitting Diode Pixel Structure And Concomitant Method James Harold Atherton; Michael Gillis Kane; Frank Paul Cuomo; Roger Green Stewart
6611241 (09/200081)	US	8/26/2003 (11/25/1998)	Modular Display System Bawa Singh; Herschel Clement Burstyn; Joseph Thomas Mcginn; Arthur Herbert Firester; Donald Barry Carlin; Dennis John Bechis
6370019 (09/250329)	US	4/9/2002 (2/16/1999)	Sealing Of Large Area Display Structures Dennis Lee Matthies; Zilan Shen; James Harold Atherton; Roger Green Stewart
6476783 (09/250347)	US	11/5/2002 (2/16/1999)	Contrast Enhancement For An Electronic Display Device By Using A Black Matrix And Lens Array On Outer Surface Of Display Dennis Lee Matthies; Zilan Shen; James Harold Atherton; Roger Green Stewart
KR10-0581432 (KR10-2000-7009022)	KR	5/11/2006 (2/17/1999)	Sealing Of Large Area Display Structures Dennis Lee Matthies, Roger G Stewart, James H. Atherton, Dennis J. Becky, Heinz H Busta, Shen Zilan
DE69945584.7 (DE69945584.7)	DE	6/29/2016 (2/17/1999)	Sealing Of Large Area Display Structures Dennis L. Matthies; Zilan Shen; Roger G. Stewart; James H. Atherton
FR1057216 (FR99908203.5)	FR	6/29/2016 (2/17/1999)	Sealing Of Large Area Display Structures Dennis L. Matthies; Zilan Shen; Roger G. Stewart; James H. Atherton
GB1057216 (GB99908203.5)	GB	6/29/2016 (2/17/1999)	Sealing Of Large Area Display Structures Dennis L. Matthies; Zilan Shen; Roger G. Stewart; James H. Atherton
JP4421773 (JP2000-531872)	JP	12/11/2009 (2/17/1999)	Sealing Of Large Area Display Structures Dennis L. Matthies; Zilan Shen; Roger G. Stewart; James H. Atherton
JP4961000 (JP2009-207392)	JP	3/30/2012 (2/17/1999)	Sealing Of Large Area Display Structures Dennis L. Matthies; Zilan Shen; Roger G. Stewart; James H. Atherton

DEBTOR: Bylas District Economic Enterprise, LLC
SECURED PARTIES: Intellectual Ventures Assets 91 LLC
Intellectual Ventures Assets 84 LLC

Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventor(s)
KR10-0698737 (KR10-2000-7009021)	KR	3/15/2007 (2/17/1999)	Sealing Of Large Area Display Structures Dennis L. Matthies; Zilan Shen; Roger G. Stewart; James H. Atherton
EP11155128.9	EP	11/9/2001	Display Tile Structure Using Organic Light Emitting Materials Dennis Lee Matthies
JP5219764 (JP2008-312310)	JP	3/15/2013 (11/9/2001)	Methods And Apparatus For Large-Area Displays Dennis Lee Matthies
DE69932232.4 (DE69932232.4)	DE	7/5/2006 (2/17/1999)	Contrast Enhancement For An Electronic Display Device Dennis L. Matthies; Zilan Shen; Roger G. Stewart; James H. Atherton
FR1057219 (FR99908197.9)	FR	7/5/2006 (2/17/1999)	Contrast Enhancement For An Electronic Display Device Dennis L. Matthies; Zilan Shen; Roger G. Stewart; James H. Atherton
GB1057219 (GB99908197.9)	GB	7/5/2006 (2/17/1999)	Contrast Enhancement For An Electronic Display Device Dennis L. Matthies; Zilan Shen; Roger G. Stewart; James H. Atherton
JP4512269 (JP2000-531873)	JP	5/14/2010 (2/17/1999)	Contrast Enhancement For An Electronic Display Device By Using A Black Matrix And Lens Array On Outer Surface Of Display Dennis L. Matthies; Zilan Shen; Roger G. Stewart; James H. Atherton
KR10-0608445 (KR10-2000-7009023)	KR	7/26/2006 (2/17/1999)	Contrast Enhancement For An Electronic Display Device Dennis L. Matthies; Zilan Shen; Roger G. Stewart; James H. Atherton
6498592 (09/709904)	US	12/24/2002 (11/10/2000)	Display Tile Structure Using Organic Light Emitting Materials Dennis Lee Matthies

DEBTOR: Bylas District Economic Enterprise, LLC
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Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventor(s)
7592970 (10/956661)	US	9/22/2009 (10/1/2004)	Tiled Electronic Display Structure Dennis J. Bechis; Heinz H. Busta; Dennis Lee Matthies; James Harold Atherton; Roger Green Stewart; Zilan Shen
6417825 (09/200513)	US	7/9/2002 (11/25/1998)	Analog Active Matrix Emissive Display Alfred C. Ipri; Roger G. Stewart
6221438 (09/250328)	US	4/24/2001 (2/16/1999)	Patterned Deposition Of A Material Dennis Lee Matthies
JP4865946 (JP2000-579366)	JP	11/18/2011 (11/3/1999)	Patterned Deposition Of A Material Dennis Lee Matthies
KR10-0665450 (KR10-2001-7005498)	KR	12/28/2006 (11/3/1999)	Patterned Deposition Of A Material Dennis Lee Matthies
CNZL99803049.X (CN99803049.X)	CN	5/26/2004 (2/17/1999)	Tiled Electronic Display Structure Dennis Lee Matthies, Roger G Stewart, James H. Atherton, Dennis J. Becky, Heinz H Busta, Shen Zilan
CNZL99803054.6 (CN99803054.6)	CN	12/22/2004 (2/17/1999)	Sealing Of Large Area Display Device Dennis L. Matthies; Zilan Shen; Roger G. Stewart; James H. Atherton
CNZL99803050.3 (CN99803050.3)	CN	6/23/2004 (2/17/1999)	Contrast Enhancement For Electronic Display Device Dennis L. Matthies; Zilan Shen; Roger G. Stewart; James H. Atherton
6227669 (09/205634)	US	5/8/2001 (12/3/1998)	Illumination Device And Image Projection Apparatus Comprising The Device Kuo-Tung Tiao; Kuang-Vu Chen; Fu-Ming Chuang; Jinn-Chou Yoo
JP3048353 (JP10-359554)	JP	3/24/2000 (12/17/1998)	Illuminator Kuo-Tung Tiao; Kuang-Vu Chen; Fu-Ming Chuang; Jinn-Chou Yoo
6254246 (09/411622)	US	7/3/2001 (10/1/1999)	Illumination Device And Image Projection Apparatus Comprising The Device Kuo-Tung Tiao; Kuang-Vu Chen; Fu-Ming Chuang; Jinn-Chou Yoo

DEBTOR: Bylas District Economic Enterprise, LLC
SECURED PARTIES: Intellectual Ventures Assets 91 LLC
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Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventor(s)
6412953 (09/411625)	US	7/2/2002 (10/1/1999)	Illumination Device And Image Projection Apparatus Comprising The Device Kuo-Tung Tiao; Kuang-Vu Chen; Fu-Ming Chuang; Jinn-Chou Yoo
7633164 (11/784879)	US	12/15/2009 (4/10/2007)	Liquid Crystal Display Device And Manufacturing Method Therefor Junichi Koike; Hideaki Kawakami
8089158 (12/455161)	US	1/3/2012 (5/29/2009)	Liquid Crystal Display Device And Manufacturing Method Therefor Junichi Koike; Hideaki Kawakami
8084860 (12/586612)	US	12/27/2011 (9/23/2009)	Liquid Crystal Display Device And Manufacturing Method Therefor Junichi Koike; Hideaki Kawakami
JP5121299 (JP2007-124037)	JP	11/2/2012 (5/9/2007)	Liquid Crystal Display Device And Manufacturing Method Of The Same Junichi Koike; Hideaki Kawakami
7782413 (11/801304)	US	8/24/2010 (5/9/2007)	Liquid Crystal Display Device And Manufacturing Method Therefor Junichi Koike; Hideaki Kawakami
8451394 (12/799163)	US	5/28/2013 (4/20/2010)	Liquid Crystal Display Device And Manufacturing Method Therefor Junichi Koike; Hideaki Kawakami
7642552 (11/652951)	US	1/5/2010 (1/12/2007)	Liquid Crystal Display Device And Manufacturing Method Therefor Junichi Koike; Hideaki Kawakami

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SECURED PARTIES: Intellectual Ventures Assets 91 LLC
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“Abandoned Assets”

Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventor(s)
6229506 (09/064696)	US	5/8/2001 (4/22/1998)	Active Matrix Light Emitting Diode Pixel Structure And Concomitant Method Alfred Charles Ipri; James Ya-Kong Hsu; Fu-Lung Hsueh; Robin Mark Adrian Dawson; Michael Gillis Kane; Roger Green Stewart
KR10-0559078 (KR10-1999-7009657)	KR	3/3/2006 (4/23/1998)	Active Matrix Light Emitting Diode Pixel Structure And Concomitant Method Alfred Charles Ipri; James Ya-Kong Hsu; Fu-Lung Hsueh; Robin Mark Adrian Dawson; Michael Gillis Kane; Roger Green Stewart
KR10-2005-7012271	KR	4/23/1998	Active Matrix Light Emitting Diode Pixel Structure And Concomitant Method Alfred Charles Ipri; James Ya-Kong Hsu; Fu-Lung Hsueh; Robin Mark Adrian Dawson; Michael Gillis Kane; Roger Green Stewart
EP99967064.9	EP	9/2/1999	Line Scanning Circuit For A Dual-Mode Display Shen Zilan; Atherton James Harold; Connor Stephen John; Stewart Roger Green; Dawson Robin Mark Adrian; Ipri Alfred Charles
6229508 (09/161862)	US	5/8/2001 (9/28/1998)	Active Matrix Light Emitting Diode Pixel Structure And Concomitant Method Kane, Michael Gillis
EP0905673 (EP98307912.0)	EP	11/26/2008 (9/29/1998)	Active Matrix Display System And Method For Driving The Same Kane Michael Gillis; Stewart Roger Green; Cuomo Frank Paul; Atherton James Harold

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SECURED PARTIES: Intellectual Ventures Assets 91 LLC
Intellectual Ventures Assets 84 LLC

Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventor(s)
JP2000-523812	JP	12/2/1998	Modular Display System Firester, Arthur, Herbert; Carlin, Donald, Barry; Burstyn, Herschel, Clement; Bechis, Dennis, John; Singh, Bawa; Mcginn, Joseph, Thomas
JP2011-106273	JP	12/2/1998	Modular Display System Firester, Arthur, Herbert; Carlin, Donald, Barry; Burstyn, Herschel, Clement; Bechis, Dennis, John; Singh, Bawa; Mcginn, Joseph, Thomas
6897855 (09/250324)	US	5/24/2005 (2/16/1999)	Tiled Electronic Display Structure Dennis Lee Matthies; Dennis J. Bechis; Zilan Shen; James Harold Atherton; Roger Green Stewart; Heinz H. Busta
EP99932532.7	EP	2/17/1999	Tiled Electronic Display Structure Dennis Lee Matthies, Roger G Stewart, James H. Atherton, Dennis J. Becky, Heinz H Busta, Shen Zilan
JP2000-531834	JP	2/17/1999	Tiled Electronic Display Structure Dennis Lee Matthies, Roger G Stewart, James H. Atherton, Dennis J. Becky, Heinz H Busta, Shen Zilan
JP2009-207361	JP	2/17/1999	Tiled Electronic Display Structure Matthies Dennis Lee; Stewart Roger G; Atherton James H; Bechis Dennis J; Busta Heinz H; Shen Zilan
CN200410056551.6	CN	2/17/1999	Sealing Of Large Area Display Device HAROLD ATHERTON JAMES; ZILAN SHEN; BUSTA HEINZ H; LEE MATTHIES DENNIS; BECHIS DENNIS J; GREEN STEWART ROGER

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Patent/ Application Number	Country	Issue Date/ Filing Date	Title of Patent and Inventor(s)
EP1057216 (EP99908203.5)	EP	6/29/2016 (2/17/1999)	Sealing Of Large Area Display Structures Dennis L. Matthies; Zilan Shen; Roger G. Stewart; James H. Atherton
EP01988262.0	EP	11/9/2001	Display Tile Structure Using Organic Light Emitting Materials Dennis Lee Matthies
JP2002-548911	JP	11/9/2001	Display Tile Structure Using Organic Light Emitting Materials Dennis Lee Matthies
EP1057219 (EP99908197.9)	EP	7/5/2006 (2/17/1999)	Contrast Enhancement For An Electronic Display Device Dennis L. Matthies; Zilan Shen; Roger G. Stewart; James H. Atherton
7864136 (11/468744)	US	1/4/2011 (8/30/2006)	Tiled Electronic Display Structure Heinz H. Busta; Dennis Lee Matthies; Roger Green Stewart; Zilan Shen; Dennis J. Hechis; James Harold Atherton
JP4251377 (JP10-546378)	JP	1/30/2009 (4/23/1998)	Active Matrix Light Emitting Diode Pixel Structure And Method Alfred Charles Ipri; James Ya-Kong Hsu; Fu-Lung Hsueh; Robin Mark Adrian Dawson; Michael Gillis Kane; Roger Green Stewart
JP4453845 (JP2007-102308)	JP	2/12/2010 (4/10/2007)	Liquid Crystal Display Device And Method For Manufacturing The Same Junichi Koike; Hideaki Kawakami
JP2007-004045	JP	1/12/2007	Liquid Crystal Display Device And Manufacturing Method Therefor Junichi Koike; Hideaki Kawakami

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