

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Alps Electric., Co., Ltd.	02/03/2010

RECEIVING PARTY DATA

Name:	S. Sonder Et Cie, S.A.
Street Address:	Elvira Mendez Street number 10
Internal Address:	Banco do Brasil Building
City:	Panama City
State/Country:	PANAMA

PROPERTY NUMBERS Total: 25

Property Type	Number
Patent Number:	6356318
Patent Number:	6556213
Patent Number:	6624825
Patent Number:	6587174
Patent Number:	6618097
Patent Number:	6529257
Patent Number:	6825899
Patent Number:	6621539
Patent Number:	6924786
Patent Number:	6606099
Patent Number:	6958800
Patent Number:	6967704
Patent Number:	6801278
Patent Number:	6686983
Patent Number:	6963327

501479152

PATENT
REEL: 026018 FRAME: 0750

CH \$1000.00 6356318

Patent Number:	6621886
Patent Number:	6606139
Patent Number:	6912028
Patent Number:	6989871
Patent Number:	6922189
Patent Number:	6847425
Patent Number:	6788371
Patent Number:	6734934
Patent Number:	6864934
Patent Number:	6816217

CORRESPONDENCE DATA

Fax Number: (312)775-8100
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
 Phone: 312.775.8000
 Email: mhmpo@mcandrews-ip.com
 Correspondent Name: Peter J. McAndrews
 Address Line 1: McAndrews, 500 W. Madison St., 34th Fl
 Address Line 4: Chicago, ILLINOIS 60661

ATTORNEY DOCKET NUMBER:	24119US01
-------------------------	-----------

NAME OF SUBMITTER:	Peter J. McAndrews
--------------------	--------------------

Total Attachments: 40

source=Original ASN 11-1-10#page1.tif
 source=Original ASN 11-1-10#page2.tif
 source=Original ASN 11-1-10#page3.tif
 source=Original ASN 11-1-10#page4.tif
 source=Original ASN 11-1-10#page5.tif
 source=Original ASN 11-1-10#page6.tif
 source=Original ASN 11-1-10#page7.tif
 source=Original ASN 11-1-10#page8.tif
 source=Original ASN 11-1-10#page9.tif
 source=Original ASN 11-1-10#page10.tif
 source=Original ASN 11-1-10#page11.tif
 source=Original ASN 11-1-10#page12.tif
 source=Original ASN 11-1-10#page13.tif
 source=Original ASN 11-1-10#page14.tif
 source=Original ASN 11-1-10#page15.tif
 source=Original ASN 11-1-10#page16.tif
 source=Original ASN 11-1-10#page17.tif
 source=Original ASN 11-1-10#page18.tif
 source=Original ASN 11-1-10#page19.tif
 source=Original ASN 11-1-10#page20.tif
 source=Original ASN 11-1-10#page21.tif

source=Original ASN 11-1-10#page22.tif
source=Original ASN 11-1-10#page23.tif
source=Original ASN 11-1-10#page24.tif
source=Original ASN 11-1-10#page25.tif
source=Original ASN 11-1-10#page26.tif
source=Original ASN 11-1-10#page27.tif
source=Original ASN 11-1-10#page28.tif
source=Original ASN 11-1-10#page29.tif
source=Original ASN 11-1-10#page30.tif
source=Original ASN 11-1-10#page31.tif
source=Original ASN 11-1-10#page32.tif
source=Original ASN 11-1-10#page33.tif
source=Original ASN 11-1-10#page34.tif
source=Original ASN 11-1-10#page35.tif
source=Original ASN 11-1-10#page36.tif
source=Original ASN 11-1-10#page37.tif
source=Original ASN 11-1-10#page38.tif
source=Original ASN 11-1-10#page39.tif
source=Original ASN 11-1-10#page40.tif

EXHIBIT B

Assignment of Patent Rights

Whereas, Alps Electric., Co., Ltd., a Japanese corporation, with an office at 1-7 Yukigaya Otsuka-machi, Ota-ku, Tokyo, Japan 145-8501(hereinafter "Seller") is the sole and exclusive owner of certain United States and/or foreign patents and/or patent applications listed in Exhibit A annexed hereto (collectively referred to as the "Patents"); and

Whereas, S. SONDER ET CIE, S.A., a Republic of Panama corporation, with an office at Elvira Mendez Street number 10, Banco do Brasil Building, Panama City, Republic of Panama, (hereinafter "Purchaser") is desirous of acquiring the right, title and interest in, to and under the said Patents.

Now, Therefore,

For good and valuable consideration, the receipt of which is hereby acknowledged, Seller does hereby sell, assign, transfer and set over to Purchaser, the Patents aforesaid, and any inventions claimed in said Patent, any reissue or reissues of said Patents already granted and which may be granted, any certificates of reexamination already granted and which may be granted the same to be held and enjoyed by Purchaser for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives, to the end of the term or terms for which said Patents are or may be granted, reissued or extended as fully and entirely as the same would have been held and enjoyed by Seller, if this assignment and sale had not been made; together with all claims for damages by reason of past infringement of said Patents, with the right to sue for, and collect the same for its own use and behalf, and for the use and behalf of its successors, assigns or other legal representatives.

And, Seller, hereby authorizes and requests the Commissioner of Patents and

Trademarks to issue any and all Letters Patents of the United States on said inventions to Purchaser as assignee of the entire interest, and hereby covenants that Seller has full right to convey the entire interest herein assigned, and that, except as otherwise provided between the parties, Seller has not executed, and will not execute, any agreements in conflict therewith.

In Witness Whereof, Seller, by its duly authorized representative, has executed this Assignment.

DATE: February 3, 2010

By: Masalaka Kataoka
Printed/Typed Name

Title: President

Masalaka Kataoka
Signature

EXHIBIT A
PATENTS TO BE ASSIGNED

<u>Patent or application no.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Title of Patent and First Named Inventors</u>
5075790	US	09/17/1990	Method for orienting liquid crystal display element by rubbing Hayashi, Yuzo
5227904	US	07/12/1991	Ferroelectric liquid crystal device Nakanowatari, Jun
5258866	US	03/10/1992	Method of connecting liquid crystal display and circuit board with thermal expansion compensation Ishikawa, Takehiro
JP2809522	JP	03/18/1991	Method for connecting liquid crystal display element to flexible substrate Ishikawa, Takehiro
KR10-0099327	KR	03/13/1992	Method of connecting liquid crystal display and flexibleboard Ishikawa, Dakehiro
5283677	US	05/21/1992	Liquid crystal display with ground regions between terminal groups Sagawa, Fumihiko
JP2916824	JP	05/31/1991	Liquid crystal display device

			Sagawa, Fumihiko
5251051	US	07/27/1992	Circuit for driving liquid crystal panel Fujiyoshi, Tatsumi
5555116	US	08/11/1994	Liquid crystal display having adjacent electrode terminals set equal in length Ishikawa, Takehiro
JP2978684	JP	08/23/1993	Liquid crystal display device Sagawa, Fumihiko
5725915	US	09/21/1995	Liquid crystal display Ishitaka, Yoshihiko
JP3195172	JP	09/21/1994	Liquid crystal display element, manufacture thereof, and manufacturing device therefor Kano, Mitsuru
5663778	US	09/26/1995	Liquid crystal devices and method for making the same Konno, Tadashi
JP3328444	JP	10/19/1994	Liquid crystal element and its manufacture Konno, Tadashi
5742368	US	12/30/1996	Reflection liquid crystal display device Chen, Guoping
5877828	US	06/05/1997	Substrate for liquid crystal display element and method for manufacturing liquid crystal display element using the substrate

			substrate Tanaka, Takao
CNZL97112123.0	CN	06/13/1997	Liquid crystal display element and manufacture method thereof Tanaka, Takao
JP3255848	JP	06/13/1996	Liquid crystal display element and its production Tanaka, Takao
KR10-0261331	KR	06/12/1997	Liquid crystal display device and manufacturing method thereof Tanaka, Takao
TW1156903	TW	05/27/1997	Liquid display element and the manufacturing method thereof Tanaka, Takao
5835178	US	07/08/1997	Liquid crystal display device with periphery of external electrodes covered with orientation film formed where extraction electrodes are not formed Sone, Takehiko
CNZL97112533.3	CN	07/17/1997	Liquid crystal display device Sone, Takehiko
6057819	US	08/14/1997	Liquid crystal display apparatus and drive circuitry used in the same apparatus Sone, Takehiko

CNZL97116222.0	CN	08/28/1997	Liquid crystal display device and actuating loop for use with same Sone, Takehiko
JP3244630	JP	08/28/1996	Liquid crystal display device and driving circuit therefor Sone, Takehiko
KR10-0267447	KR	08/27/1997	Liquid crystal display apparatus and driving circuit for the same Sone, Takehiko
TWI131744	TW	08/06/1997	Liquid crystal display apparatus and drive circuitry used in the same apparatus Sone, Takehiko
6259499	US	12/09/1997	Reflecting color polarized light filter and reflecting color liquid crystal display device using the same Yamanashi, Fumiaki
6476888	US	10/26/1999	Reflecting color polarized light filter with color filter having polarized light function and liquid crystal display device Yamanashi, Fumiaki
KR10-0290938	KR	12/09/1997	Color polarization filter for reflection and reflective lcd device using the same Yamanashi, Fumiaki
TWI138204	TW	11/19/1997	Reflection type color polarization filter and reflection type color

			liquid crystal display device using the same
			Yamanashi, Fumiaki
6130736	US	06/09/1998	Liquid crystal display with corrugated reflective surface
			Sasaki, Yorihiro
6219120	US	02/29/2000	Liquid crystal display with corrugated reflective surface
			Sasaki, Yorihiro
6141073	US	02/29/2000	Reflective type liquid crystal display
			Sasaki, Yorihiro
CNZL03109846.0	CN	06/12/1998	Reflecting liquid crystal display
			Sasaki, Yorihiro
CNZL98102432.7	CN	06/12/1998	Reflective liquid crystal display device
			Sasaki, Yorihiro
KR10-0300367	KR	06/12/1998	Reflection-type liquid crystal display
			Sasaki, Yorihiro
TWI157196	TW	06/02/1998	Reflection-type liquid crystal display device
			Kano, Mitsuru
6297786	US	07/14/1998	Liquid crystal display apparatus
			Kakuta, Ryohei
6212317	US	11/25/1998	Method of manufacturing color filter and device of manufacturing the same
			Takeshita, Naoki
JP3846985	JP	11/27/1997	Method and device

			for manufacturing color filter Takeshita, Naoki
6281869	US	09/01/1999	Display device capable of enlarging and reducing video signal according to display unit Seino, Kenichi
6734933	US	09/14/1999	Reflection liquid crystal display capable of displaying pictures in improved color purity Mafune, Takahito
KR10-0309052	KR	09/03/1999	Reflection-type lce enhancing color purity Mafune, Takahito
TWI179675	TW	08/27/1999	Reflective liquid crystal display device with improved color purity Mafune, Takahito
6618032	US	11/17/1999	Display apparatus having functions of displaying video signals as enlarged/thinned pictures Seino, Kenichi
6362860	US	12/14/1999	Lcd having metal shield which seperates drive circuit from panel and backlight, with elastic spring fingers connecting shield and outer case

			Sagawa, Fumihiko
CNZL99126382.0	CN	12/15/1999	Liquid crystal display device
			Sagawa, Fumihiko
TWI123387	TW	11/18/1999	Liquid crystal display device
			Sagawa, Fumihiko
6330046	US	01/19/2000	Reflection type liquid crystal display device wherein the organic film is terminated before extending into the driving element mounting region
			Ishitaka, Yoshihiko
CNZL00100646.0	CN	01/25/2000	Reflective liquid crystal display device and manufacturing method thereof
			Ishitaka, Yoshihiko
EP00300187.2	EP	01/12/2000	Reflection type liquid crystal display device and method for manufacturing the same
			Ishitaka, Yoshihiko
JP3904752	JP	01/26/1999	Reflection type liquid crystal display device and its production
			Ishitaka, Yoshihiko
KR10-0390198	KR	01/14/2000	Reflection type liquid crystal display device and manufacturing method thereof
			Ishitaka, Yoshihiko
TWI228611	TW	12/27/1999	Reflection type liquid crystal display device and method for manufacturing the

			same
6686982	US	04/12/2000	Ishitaka, Yoshihiko Reflection type liquid crystal display device in which oblique moiré fringe is not easily viewed and which is superior in display quality Yoshii, Katsumasa
CNZL00105851.7	CN	04/12/2000	Reflective liquid crystal display unit Yoshii, Katsumasa
KR10-0367897	KR	04/10/2000	Reflection-type liquid crystal display device Yoshii, Katsumasa
TWI160772	TW	03/22/2000	Reflection type liquid crystal display device Yoshii, Katsumasa
6356318	US	06/26/2000	Active-matrix liquid crystal display having storage capacitors of area smaller than that of pixel electrodes Kawahata, Ken
JP3844913	JP	06/28/1999	Active matrix type liquid crystal display device Kawabata, Masaru
6556213	US	06/27/2000	Image display having function of performing interpolation process by which outline is not blurred even when original image is enlarged Yamada, Yukimitsu

6624825	US	07/06/2000	Pixel resolution converting circuit and image display device using the same Fujiyoshi, Tatsumi
6587174	US	07/14/2000	Active matrix type liquid crystal display Nakano, Akira
6618097	US	08/10/2000	Image display apparatus and contour detecting circuit provided therein Yamada, Yukimitsu
6529257	US	10/12/2000	Active-matrix liquid- crystal display apparatus which prevents flicker and image sticking in main display area and sub display area Nakano, Akira
6825899	US	02/26/2001	Liquid crystal display device in which generation of moire fringes is prevented Kobayashi, Masakazu
CNZL01104442.X	CN	02/27/2001	Liquid crystal display device Ohayashi, Shoichi
JP3727505	JP	02/29/2000	Liquid crystal display device Kobayashi, Shoichi
KR10-0371758	KR	02/09/2001	Liquid crystal display device Kobayashi, Masakazu
TWI290253	TW	01/31/2001	Liquid crystal display device

			Kobayashi, Masakazu
6621539	US	04/17/2001	Reflective type lcd and method of manufacturing the same Nakamura, Sadao
JP3748760	JP	05/18/2000	Reflection type lcd and method of manufacture Nakamura, Sadao
TWI238281	TW	03/21/2001	Reflection type liquid crystal display and its manufacturing method Nakamura, Sadao
6924786	US	05/29/2001	Active-matrix liquid crystal display suitable for high-definition display, and driving method thereof Hebiguchi, Hiroyuki
6606099	US	06/18/2001	Display device for creating intermediate gradation levels in pseudo manner and image signal processing method Yamada, Yukimitsu
JP3748786	JP	04/10/2001	Display device and image signal processing method Yamada, Yukimitsu
6958800	US	09/17/2001	Reflective liquid crystal display device including organic film prevented from being degraded due to moisture absorption

			Hoshino, Toshiaki
6967704	US	09/25/2003	Reflective liquid crystal display device including organic film prevented from being degraded due to moisture absorption Hoshino, Toshiaki
6801278	US	10/10/2001	Liquid crystal display apparatus having flexible substrate and concave faces Tanada, Tetsushi
CNZL01141489.8	CN	09/27/2001	Liquid crystal display device Tanada, Tesshi
6686983	US	10/17/2001	Reflection type liquid crystal display device with high-brightness bright display and high contrast Tanada, Tetsushi
CNZL01136805.5	CN	10/24/2001	Reflection-type liquid crystal display device Tanada, Tesshi
6963327	US	10/23/2001	Shift register circuit including first shift register having plurality of stages connected in cascade and second shift register having more stages Kawahata, Ken
6621886	US	10/23/2001	Shift register having fewer lines therein, and liquid crystal display having the

			same Kawahata, Ken
6606139	US	04/18/2002	Liquid crystal display device with improved viewing angle property and portable electronic apparatus using the same Yoshii, Katsumasa
6912028	US	06/12/2003	Liquid crystal display device with improved viewing angle properly and portable electronic apparatus using the same Yoshii, Katsumasa
CNZL02105700.1	CN	04/18/2002	Liquid crystal display unit with improved visual angle characteristic and portable electronic equipment using it Yoshii, Katsumasa
TW184855	TW	03/18/2002	Liquid crystal display device with improved viewing angle property and portable electronic apparatus using the same Yoshii, Katsumasa
CNZL200410075261.6	CN	04/18/2002	Liquid crystal display device and portable electronic apparatus using the same Yoshii, Katsumasa
JP4001871	JP	02/16/2004	Liquid crystal display device and portable electronic apparatus Yoshii, Katsumasa

6989871	US	04/25/2002	Image-signal processing apparatus for clamping analog image signal and then for converting it to digital image signal Saito, Junichi
6922189	US	07/01/2002	Image-signal driving circuit eliminating the need to change order of inputting image data to source driver Fujiyoshi, Tatsumi
6847425	US	07/10/2002	Liquid crystal display having reflector outside liquid crystal cell Tanada, Tetsushi
KR10-0576273	KR	07/24/2002	Liquid crystal display device Kano, Mitsuru
6788371	US	07/23/2002	Semitransparent reflective liquid crystal display device having decreased number of phase difference and polarizing plates and having reflector with concave portions on outer surface of transparent substrate Tanada, Tetsushi
KR10-0450693	KR	07/24/2002	Liquid crystal display apparatus Kano, Mitsuru
6734934	US	01/07/2003	External reflective type liquid crystal display having substrate with light

			scattering surface and reflector with irregular surface Yoshii, Katsumasa
6864934	US	03/08/2004	Lcd with irregular reflection surface reflector and light scattering element Yoshii, Katsumasa
6816217	US	01/23/2003	Transflective liquid-crystal display device Sone, Takehiko
CNZL03103013.0	CN	01/27/2003	Semipermeable reflection type lcd device Sone, Takehiko
KR10-0513939	KR	01/17/2003	Transflective liquid-crystal display device Sone, Takehiko
TWI238275	TW	01/09/2003	Transflective liquid-crystal display device Sone, Takehiko
7301517	US	05/08/2003	Liquid-crystal display apparatus capable of reducing line crawling Hebiguchi, Hiroyuki
CNZL03125144.7	CN	05/12/2003	Liquid crystal display device for reducing row creep Jakuchi, Hiroyuki
CNZL200510067082.2	CN	05/12/2003	Liquid-crystal display apparatus capable of reducing line crawling Hebiguchi, Hiroyuki
JP4181804	JP	07/04/2002	Liquid crystal display

			device Nakano, Akira
KR10-0520263	KR	05/09/2003	Lcd for reducing line crawling Hebiguchi, Hiroyuki
TWI229773	TW	05/09/2003	Liquid crystal display device for reducing line crawling Hebiguchi, Hiroyuki
6963381	US	07/24/2003	Active matrix display device with asymmetrical reflection, and insulating layer with a corrugated surface and a flat portion Kano, Mitsuru
CNZL03133122.X	CN	07/24/2003	Active matrix display device Mitsuru, Kano
KR10-0630284	KR	07/11/2003	Active matrix display device Kano, Mitsuro
TWI283319	TW	07/22/2003	Active matrix display device Kano, Mitsuru
7123318	US	10/20/2003	Double-sided emissive liquid crystal display module containing double-sided illumination plate and multiple display panels Nagakubo, Hideaki
CNZL200310101453.5	CN	10/20/2003	Dual-side lighting lcd module

KR10-0578771	KR	10/15/2003	Nagakubo, Hideaki LCD module with a double-faced light emitting type to effectively use the light of a backlight Nagakubo, Hideaki
6853420	US	10/23/2003	Transflective liquid crystal display with backlight and reflection film Tanada, Tetsushi
5785761	US	07/13/1995	Fine particles dispersing apparatus Suzuki, Akihiro
7245339	US	03/17/2004	Transflective film and liquid crystal display device Yoshii, Katsumasa
CNZL200410004884.4	CN	02/12/2004	Semitransparent reflective film and liquid crystal display device Yoshii, Katsumasa
JP4181905	JP	03/25/2003	Transflective film and liquid crystal display device Yoshii, Katsumasa
KR10-0622324	KR	02/12/2004	Semi-transmission reflection film having improved reflexivity and liquid crystal display device based on the same Yoshii, Katsumasa
TWI269107	TW	03/03/2004	Transflective film and liquid crystal display device

			Yoshii, Katsumasa
7199847	US	04/20/2004	Transflective liquid-crystal display device and electronic device including the same Kano, Mitsuru
CNZL200410034856.7	CN	04/16/2004	Semi-transmission type lcd device and electronic device having same Kano, Mitsuru
EP04252373.8	EP	04/22/2004	Transflective liquid-crystal display device and electronic device including the same Kano, Mitsuru
JP4167930	JP	04/24/2003	Transflective liquid crystal display device and electronic equipment equipped with the same Kano, Mitsuru
KR10-0713603	KR	04/14/2004	Transflective liquid crystal display, and electronic equipment having the same, particularly regarding to according thickness of liquid crystal through which light passes in reflective display form and in transmissive display form Kano, Mitsuru
7414683	US	10/19/2004	Transflective film and liquid crystal display device using the same

			Sone, Takehiko
CNZL200410088197.5	CN	10/21/2004	Semi-transmission reflective film and semi ctransmission reflective liquid crystal display device using the same Sone, Takehiko
7336254	US	03/09/2005	Shift register that suppresses operation failure due to transistor threshold variations, and liquid crystal driving circuit including the shift register Iwasaki, Chisato
KR10-0657037	KR	03/28/2005	Shift register to suppress operation failure due to transistor threshold variations, and liquid crystal driving circuit using the same, including second transistor as clamping transistor for turning off first transistor Iwasaki, Chisato
7561150	US	09/15/2005	Liquid crystal driving circuit and liquid crystal display device Kikuchi, Koji
CNZL200510107158.X	CN	09/28/2005	Liquid crystal driving circuit and liquid crystal display device Kikuchi, Koji
KR10-0656579	KR	10/05/2005	Liquid crystal driving circuit and liquid crystal display device for driving a liquid

			crystal display panel of active matrix type at high speed Kikuchi, Koji
TWI317919	TW	09/21/2005	Liquid crystal driving circuit and liquid crystal display device Kikuchi, Koji
7268845	US	12/23/2005	Transflective liquid crystal display device having four retardation plates Oizumi, Mitsuo
CNZL200510134133.9	CN	12/27/2005	Liquid crystal display device Oizumi, Mitsuo
EP05028240.9	EP	12/22/2005	Liquid crystal display device Oizumi, Mitsuo
7495727	US	12/23/2005	Transflective liquid crystal display device having liquid crystal layer with much larger transmissive retardation than reflective retardation Oizumi, Mitsuo
CNZL200510138159.0	CN	12/27/2005	Liquid crystal display apparatus Oizumi, Mitsuo
EP05028241.7	EP	12/22/2005	Liquid crystal display apparatus Oizumi, Mitsuo
JP2005-358412	JP	12/13/2005	Liquid crystal display apparatus Oizumi, Mitsuo
CNZL01100577.7	CN	01/16/2001	Liquid crystal display

			device
			Owada, Miyuki
JP3748752	JP	01/24/2000	Liquid crystal display device
			Owada, Miyuki
TW1262345	TW	12/30/2000	Liquid crystal display device
			Owada, Miyuki
CNZL02101707.7	CN	01/14/2002	Matrix, liquid crystal display device and electronic instrument
			Akira, Nakano
JP3880317	JP	01/15/2001	Matrix, liquid crystal display device and electronic instrument
			Akira, Nakano
KR10-0452539	KR	01/11/2002	Base, liquid crystal display device and electronic equipment
			Akira, Nakano
TW1243929	TW	12/12/2001	Array substrate, liquid crystal display device and electronic equipment
			Akira, Nakano
CNZL03107893.1	CN	04/01/2003	Lcd apparatus
			Owada, Miyuki
JP4053334	JP	04/05/2002	Liquid crystal display device
			Owada, Miyuki
TW1227346	TW	04/04/2003	Liquid crystal display device
			Owada, Miyuki
CNZL03120583.6	CN	03/14/2003	Lcd device
			Miki, Yasuhiro

KR10-0554923	KR	02/17/2006	Liquid crystal display device Miki, Yasuhiro
7277147	US	03/24/2003	Liquid crystal display driven by one driving IC Miki, Yasuhiro
CNZL03123606.5	CN	05/09/2003	Shift register device and display device Hebiguchi, Hiroyuki
JP3774678	JP	05/10/2002	Shift register device and display device Hebiguchi, Hiroyuki
KR10-0542060	KR	04/25/2003	Shift register device and display device Hebiguchi, Hiroyuki
CNZL03125151.X	CN	05/12/2003	Liquid crystal display devices Oyamato, Tayuki
JP3943437	JP	05/10/2002	Liquid crystal display devices Owada Ko
KR10-0530719	KR	05/07/2003	Liquid crystal display Oyamato, Tayuki
TWI226486	TW	05/06/2003	Liquid crystal display devices Oyamato, Tayuki
CNZL03133056.8	CN	07/23/2003	Liquid crystal delay related to gap between it and baseplate Miki, Yasuhiro
CNZL03133058.4	CN	07/23/2003	Liquid crystal display Masumoto, Yoshifumi

KR10-0532543	KR	06/24/2003	Liquid crystal display device Masumoto, Yoshifumi
CNZL03138547.8	CN	06/03/2003	Liquid crystal display device and method for manufacturing liquid crystal display device Miki, Yasuhiro
KR10-0531590	KR	06/02/2003	Lcd and manufacturing method thereof Miki, Yasuhiro
TWI242678	TW	06/05/2003	Liquid crystal display device and manufacturing method of liquid crystal display device Miki, Yasuhiro
CNZL03143655.2	CN	07/29/2003	Liquid crystal display device Asakawa, Takaji
KR10-0557260	KR	07/02/2003	Liquid crystal display Asakawa, Takashi
TWI307439	TW	07/22/2003	Liquid crystal display Asakawa, Takaji
CNZL200410063678.0	CN	07/14/2004	Transflective liquid crystal display panel, transflective liquid crystal display device, and manufacturing method of transflective liquid crystal display device Yoshii, Katsumasa
JP4260563	JP	07/17/2003	Transflective liquid

			crystal display panel and device, and manufacturing method of transfective liquid crystal display panel Yoshii, Katsumasa
KR10-0634769	KR	07/08/2004	Semi-transmission/reflection lcd panel having resin layer with grooves and filter layer with thick part, semi-transmission/reflection lcd, and method for fabricating semi-transmission/reflection lcd panel Kano, Mitsuru
CNZL200510076119.8	CN	06/08/2005	Bistable liquid crystal display device Tadashi, Akahane
CNZL200510084631.7	CN	07/15/2005	Liquid crystal display device Oizumi, Mitsuo
EP05015545.6	EP	07/18/2005	Liquid crystal display device with coloured back light sources and white balance correction Oizumi, Mitsuo
KR10-0769604	KR	07/19/2005	Liquid crystal display for displaying images in fine white balance capable of using a light source controller and an lcd panel driver correcting unit Oizumi, Mitsuo

TWI312494	TW	06/13/2005	Liquid crystal display device Oizumi, Mitsuo
CNZL200510113612.2	CN	10/11/2005	Ocb mode transfective liquid crystal display device Oizumi, Mitsuo
KR10-0659249	KR	10/13/2005	Semipermeable and reflexible liquid crystal display of optical compensated band mode Oizumi, Mitsuo
TW094131348	TW	09/12/2005	Ocb mode transfective liquid crystal display apparatus Oizumi, Mitsuo
CNZL200510116181.5	CN	10/25/2005	Shift register and liquid crystal driver Iwasaki, Chisato
KR10-0745111	KR	10/27/2005	Shift register and a liquid crystal driver using the shift register for increasing operation speed of the shift register Iwasaki, Chisato
TWI308312	TW	09/27/2005	Shift register and liquid crystal driver Iwasaki, Chisato
CNZL200510128994.6	CN	12/05/2005	Display panel and display device Sugiura, Takuro
JP2004-353578	JP	12/07/2004	Display panel and display apparatus Sugiura, Takuro

CNZL200610071671.2	CN	03/30/2006	Transflective liquid crystal display panel and color liquid crystal display device Masumoto, Yoshifumi
JP2005-100277	JP	03/31/2005	Semitransmissive liquid crystal display panel and color liquid crystal display device Masumoto, Yoshifumi
CNZL200610088669.6	CN	06/05/2006	Wiring connection structure and liquid crystal display device Owada, Miyuki
JP2005-166204	JP	06/06/2005	Wiring connection structure and liquid crystal display device Owada, Miyuki
KR10-0777167	KR	06/05/2006	Simplified wiring connection structure using single acf and liquid crystal display device having the same Owada, Miyuki
TW095118900	TW	05/26/2006	Wiring connection structure and liquid crystal display device Owada, Miyuki
CNZL200610103156.8	CN	07/06/2006	Liquid crystal display device Yamaguchi, Masahiko
KR10-0769505	KR	07/05/2006	Lcd having a light diffusing structure on a black matrix for improving the light

			utilizing efficiency Yamaguchi, Masahiko
TW095122063	TW	06/20/2006	Liquid crystal display device Yamaguchi, Masahiko
CNZL97120362.8	CN	12/05/1997	Liquid crystal display Nagakubo, Hideaki
JP3455042	JP	12/06/1996	Liquid crystal display unit Nagakubo, Hideaki
TW146169	TW	11/18/1997	Liquid crystal display device Nagakubo, Hideaki
6313891	US	12/05/1997	Liquid crystal display device with light quantity control portion Nagakubo, Hideaki
6246457	US	02/05/1998	Liquid crystal display device in which copper layer filling between L-shape color filters and method for making the same Kobayashi, Masakazu
6219117	US	10/04/1999	Liquid crystal display device Nagakubo, Hideaki
KR10-0285517	KR	12/05/1997	Liquid display Nagakubo, Hideaki
6331348	US	10/15/1998	Substrate having repaired metallic pattern and method and device for

			repairing metallic pattern on substrate Sakai, Osamu
6875952	US	12/22/2000	Substrate having repaired metallic pattern and method and device for repairing metallic pattern on substrate Sakai, Osamu
6989809	US	08/20/1999	Liquid crystal display Inage, Fumiaki
CNZL98100162.9	CN	01/22/1998	Liquid crystal display device Yamamoto, Koichi
JP3593433	JP	01/22/1997	Liquid crystal display device Yamamoto, Koichi
TWI136639	TW	12/20/1997	Liquid crystal display device Yamamoto, Koichi
EP05011358.8	EP	05/25/2005	Color liquid crystal display device Yasuoka, Yozo
KR10-0709366	KR	05/26/2005	Color liquid crystal display for enabling both reflective display and transmissive display Yasuoka, Yozo
JP4252855	JP	07/10/2003	Source follower circuit and driving device of liquid crystal display Fujiyoshi, Tatsumi
KR10-0567605	KR	10/24/2003	Source follow circuit for reducing the loss

			of an output end and a device for driving an lcd Fujiyoshi, Tatsumi
KR10-0300388	KR	03/18/1998	Liquid crystal display device Sagawa, Fumihiko
TWI138073	TW	02/27/1998	Liquid crystal display device Sagawa, Fumihiko
KR10-0331724	KR	12/19/1998	Liquid crystal display device which reduces required space to achieve casing miniaturization and improves assembly efficiency Matsubara, Satoshi
TWI168844	TW	12/01/1998	Liquid crystal display device Matsubara, Satoshi
JP3799156	JP	03/20/1998	Liquid crystal display Yamamoto, Koichi
KR10-0297048	KR	03/17/1999	Liquid crystal display device Yamamoto, Koichi
TWI178313	TW	03/01/1999	Liquid crystal display Yamamoto, Koichi
JP3734952	JP	03/30/1998	Liquid crystal display device Yamazaki, Mitsuaki
KR10-0297049	KR	03/19/1999	Liquid crystal display apparatus Yamazaki, Mitsuaki
TWI109873	TW	03/01/1999	Liquid crystal display device

			Yamazaki, Mitsuaki
KR10-0551919	KR	07/18/2002	Display device
			Fujiyoshi, Tatsumi
TWI199874	TW	06/19/2002	Display apparatus
			Saito, Junichi
KR10-0531591	KR	06/02/2003	Liquid crystal display
			Miki, Yasuhiro
JP4115761	JP	07/05/2002	Active matrix substrate, method for manufacturing same, and display device using same
			Ohba, Tomofumi, Kawahata, Ken
KR10-0560353	KR	06/30/2003	Active matrix substrate, method for manufacturing same, and display device using same
			Ohba, Tomofumi, Kawahata, Ken
TWI204298	TW	06/27/2003	Active matrix type substrate and its manufacturing method, and display apparatus using the same
			Kawabata, Masaru
KR10-0530722	KR	07/11/2003	Active matrix display device
			Kano, Mitsuru
TWI250362	TW	07/16/2003	Active matrix display device
			Kano, Mitsuru
KR10-0726012	KR	03/22/2005	Wiring pattern having improved design for facilely connecting

			electrodes of different pitches, an electronic device, and an lcd Kikuchi, Koji
KR10-0769506	KR	07/13/2006	Display device and fabricating method thereof and electronic equipment with the same Yamaguchi, Masahiko
TW095123620	TW	06/29/2006	Display element, and manufacturing method of display element, and electronic equipment with display element Yamaguchi, Masahiko
TWI085639	TW	10/13/1995	Color liquid crystal display device Hoshino, Toshiaki
5745204	US	11/21/1995	Liquid crystal color display device Hoshino, Toshiaki
TWI224223	TW	09/23/1999	Liquid crystal display device Mafune, Takahito
6163667	US	10/26/1999	Semi-transmissive liquid crystal display device free from reversal of display on screen Mafune, Takahito
TWI245249	TW	02/19/2004	Signal processing circuit and liquid crystal display device using the same

			Yamada, Yukimitsu
TWI294058	TW	11/05/2004	Transflective film and liquid crystal display device Yoshii, Katsumasa
TWI284222	TW	11/23/2005	Liquid crystal display device Hayashi, Yuzo
JP2760413	JP	12/21/1990	Liquid crystal display element Ishida, Hiroshi
JP2675196	JP	12/25/1990	Device and method for winding rubbing cloth for orientation treatment of liquid crystal display device Shiraiwa, Tetsuo
JP3029132	JP	02/16/1991	Lcd driving circuit Kato, Yoshifumi
JP2825985	JP	02/21/1991	Wiring structure of lcd module Kato, Yoshifumi
JP2799082	JP	03/27/1991	Liquid crystal display element Akira, Owada
JP2839963	JP	04/10/1991	Manufacture of liquid crystal display element Akira, Owada
JP2815246	JP	04/15/1991	Manufacture of liquid crystal display element Noriyuki, Hamada
JP2831486	JP	04/15/1991	Sealing method for liquid crystal display element

			Yuzo, Hayashi
JP2823384	JP	04/22/1991	Driving device for liquid crystal display panel
			Yoshifumi, Kato
JP2828796	JP	04/23/1991	Production of liquid crystal display element
			Yamanashi, Fumiaki
JP2831487	JP	03/14/1991	Liquid crystal display element
			Torigoe, Tsunemitsu
JP2823387	JP	05/31/1991	Liquid crystal display device
			Sagawa, fumihiro
JP2812584	JP	06/07/1991	Bias circuit for liquid crystal display element
			Kato, Yoshifumi
JP2839213	JP	06/07/1991	Liquid crystal display device
			Kato, Yoshifumi
JP2954747	JP	06/20/1991	Liquid crystal display device
			Igari, Shoji
JP2875645	JP	07/03/1991	Liquid crystal display element
			Hoshino, Toshiaki
JP2875652	JP	08/01/1991	Liquid crystal display device
			Tanaka, Takao
JP2823392	JP	08/09/1991	Liquid crystal display device
			Owada, Miyuki
JP2769060	JP	11/20/1991	Production of liquid crystal display

			element Yamanashi, Fumiaki
JP2823420	JP	03/27/1992	Liquid crystal display element Hayashi, Yuza
JP3008652	JP	03/27/1992	Production and apparatus for production of liquid crystal display element Hayashi, Yuza
JP2823424	JP	04/16/1992	Production of liquid crystal display element Hayashi, Yuza
JP2857536	JP	05/22/1992	Method for repairing disconnection of liquid crystal display device Nozaki, Takashi
JP2857537	JP	05/22/1992	Liquid crystal display device Sagawa, Fumihiko
JP2823427	JP	05/22/1992	Liquid crystal display device Sagawa, Fumihiko
JP2804679	JP	06/18/1992	Liquid crystal display device Sagawa, Fumihiko
JP2816281	JP	10/15/1992	Liquid crystal display device Tanaka, Takao
JP2857547	JP	10/15/1992	Liquid crystal display device Matsubara, Satoshi
JP3011255	JP	04/14/1993	Liquid crystal display

			device Satou, Norikazu
JP3214534	JP	08/29/1994	Color liquid crystal display device Hoshino, Toshiaki
JP3241943	JP	09/16/1994	Circuit connecting method Sagawa, Fumihiko
JP3249896	JP	02/16/1995	Back light structure of liquid crystal display device Watanabe, Tomoyuki
JP3188606	JP	06/01/1995	Back light structure of liquid crystal display device Watanabe, Tomoyuki
JP3416369	JP	12/21/1995	Linear motor and xy table work machine using it Hirota, Minoru
JP3406183	JP	05/13/1997	Method for removing domain of liquid crystal cell and device for removing the same Sugawara, Seizo
JP3612174	JP	07/08/1997	Liquid crystal display device Sagawa, Fumihiko
JP3578894	JP	08/06/1997	Liquid crystal display device Kano, Mitsuru
JP3580994	JP	10/03/1997	Liquid crystal display device Kano, Mitsuru
JP3723344	JP	05/11/1998	Stage unit for

			characteristics evaluating device for liquid crystal display element Miki, Yasuhiro
JP3638436	JP	06/26/1998	Rubbing device Kato, Hiroyuki
JP3697363	JP	02/15/1999	Reflective liquid crystal display device Ishidaka, Yoshihiko
JP3843192	JP	03/26/1999	Reflection type liquid crystal display device Sato, Yumiko
JP3716132	JP	06/23/1999	Liquid crystal display device Kawabata, Masaru
JP3759363	JP	02/17/2000	Inspecting method, repairing method and repairing device for reflection type liquid crystal display device Hayashi, Yuzo
JP3741930	JP	04/07/2000	Liquid crystal display device Nagai, Takuya
JP3803020	JP	08/31/2000	Liquid crystal display device Yamada, Yukimitsu
JP3859956	JP	10/23/2000	Liquid crystal display device Sato, Norikazu
JP3980889	JP	01/22/2002	Display device and personal digital assistant equipment Takano Satoshi
JP3665773	JP	05/10/2002	Liquid crystal display

			Hebiguchi, Hiroyuki
JP3723526	JP	05/13/2002	Liquid crystal display
			Hebiguchi, Hiroyuki
JP4000006	JP	05/13/2002	Color liquid crystal display device
			Owada, Koi
JP4028290	JP	05/15/2002	Liquid crystal display and method for manufacturing the same
			Hayashi, Yuzo
JP4315643	JP	05/29/2002	Link rod for internal combustion engine
			Naoto, Ogawara
JP4252775	JP	07/24/2002	Liquid crystal display device
			Miki, Yasuhiro
JP4108420	JP	09/12/2002	Display device and portable information terminal
			Satoshi, Takano
JP3870148	JP	10/03/2002	Indicating device and portable information terminal device
			Hayashi, Yuzo
JP4067376	JP	10/03/2002	Display device and personal digital assistant
			Yuzo, Hayashi
JP4077297	JP	10/25/2002	Display device and portable information terminal equipment
			Yuzo, Hayashi
JP2003-285963	JP	08/04/2003	Liquid crystal display
			Yamashita, tatsumaro

JP4377631	JP	08/15/2003	Semi-transparent liquid crystal display and electronic equipment provided with the same Hayashi, Yuzo
JP4270989	JP	09/11/2003	Semi-transmission reflection film and liquid crystal display device Mafune, Takahito
JP4163081	JP	09/22/2003	Driving method of liquid crystal display, and liquid crystal display Yamada, Yukimitsu
JP4163093	JP	11/13/2003	Bistable nematic liquid crystal display Hayashi, Yuzo
JP4401255	JP	07/05/2004	Molding apparatus, processing apparatus and method for processing and method for molding Akimoto, Takemi
JP2004-336076	JP	11/19/2004	Liquid crystal display device Ishidaka, Yoshihiko
5130834	US	10/27/1988	Liquid crystal display including a dye complementary to the liquid crystal's bright state color Kano, Mitsuru
4930877	US	10/27/1988	Liquid crystal display Kano, Mitsuru
5134506	US	11/22/1989	Liquid crystal device having a phase plate

			and particular dye composition Kano, Mitsuru
EP1045273	EP	03/27/2000	Reflection type liquid crystal display device with superior display quality Yoshii, Katsumasa
EP1130454	EP	01/19/2001	Liquid crystal display device in which generation of moire fringes is prevented Kobayashi, Masakazu
EP1331509	EP	01/09/2003	Transflective liquid-crystal display device Sone, Takehiko