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ER SHEET

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2 Masahiro MATSUDA 6	1) Name: SHARP KABUSHIKI KAISHA
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	s assignment is being filed together with a new application.
A. Patent Application No(s).	B. Patent No(s).
(1) 12/441,469	
(2)	(2)
(3)	(3)
Additional numbers at	
5. Name and address of party to whom correspondence	6. Total number of applications & patents involved:1
concerning document should be mailed:	7 T-4-1 f (27 CFD 2 41)
TIN D	7. Total fee (37 CFR 3.41) \$ 40.00 Enclosed
Name: H. Warren Burnam, Jr.	
T. 1.4.11	Authorized to be charged to deposit account #14-1140
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Street Address: Nixon & Vanderhye P.C. 901 North Glebe Road	should have been filed herewith (or with any paper thereafter
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H. Warren Burnam, Jr. Sto 0000 College July 23, 2009	
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REEL: 023017 FRAME: 0861

ASSIGNMENT OF PATENT APPLICATION

Hiroto AKIYAMA Masahiro MATSUDA

(Inventors)

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee) Sharp Kabushiki Kaisha

(Address) (of 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522, Japan

(hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions, and for

the country of

(Title) DISPLAY PANEL SUBSTRATE, A DISPLAY PANEL HAVING THE SUBSTRATE, A

METHOD OF PRODUCING THE SUBSTRATE, AND A METHOD OF PRODUCING

THE DISPLAY PANEL (Case No. -)

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed

(on or has already filed in

(U.S. appln. Serial No. , filed on).

The undersigned acknowledges an obligation of assignment of this invention to said

assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the tirm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

PATENT REEL: 023017 FRAME: 0862

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s). Akiyama HiroTo Date 09, 3./6 Signature of inventor Masahiro MATSUDA 09.3 16 Signature of inventor Masahiro MATSUDA Signature of inventor Signature of inventor Date _____ Signature of inventor Signature of inventor Signature of inventor Date ____ Date _____ Signature of inventor Signature of inventor Signature of inventor Date _____ Signature of inventor Signature of inventor Date _____ Signature of inventor Witnessed by: Date _____ Date _____ Witnessed by: Date _____ Witnessed by:

- 2 -

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