

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE	01/24/2022

RECEIVING PARTY DATA

Name:	HANNSTAR DISPLAY CORPORATION
Street Address:	26F., NO. 1, SONGZHI RD., XINYI DIST.,
City:	TAIPEI CITY
State/Country:	TAIWAN
Postal Code:	11047

PROPERTY NUMBERS Total: 118

Property Type	Number
Patent Number:	10025435
Patent Number:	10083989
Patent Number:	10168732
Patent Number:	10168733
Patent Number:	10173407
Patent Number:	10275062
Patent Number:	10379650
Patent Number:	10411078
Patent Number:	10474291
Patent Number:	6982209
Patent Number:	7147531
Patent Number:	7221012
Patent Number:	7679081
Patent Number:	7883386
Patent Number:	7977870
Patent Number:	8029890
Patent Number:	8093512
Patent Number:	8222810
Patent Number:	8236126
Patent Number:	8400416

PATENT

Property Type	Number
Patent Number:	8446730
Patent Number:	8557637
Patent Number:	8624134
Patent Number:	8763243
Patent Number:	8830202
Patent Number:	8878226
Patent Number:	8982088
Patent Number:	9007538
Patent Number:	9013414
Patent Number:	9035894
Patent Number:	9041280
Patent Number:	9053557
Patent Number:	9069422
Patent Number:	9073287
Patent Number:	9081431
Patent Number:	9101005
Patent Number:	9123279
Patent Number:	9123486
Patent Number:	9142798
Patent Number:	9204557
Patent Number:	9224700
Patent Number:	9244554
Patent Number:	9250851
Patent Number:	9252165
Patent Number:	9252389
Patent Number:	9253890
Patent Number:	9256321
Patent Number:	9288897
Patent Number:	9333725
Patent Number:	9343213
Patent Number:	9345131
Patent Number:	9367159
Patent Number:	9368441
Patent Number:	9372509
Patent Number:	9391208
Patent Number:	9408300
Patent Number:	9412967
Patent Number:	9437155

Property Type	Number
Patent Number:	9450202
Patent Number:	9495846
Patent Number:	9510459
Patent Number:	9529124
Patent Number:	9543954
Patent Number:	9557862
Patent Number:	9565793
Patent Number:	9591746
Patent Number:	9607960
Patent Number:	9612698
Patent Number:	9613558
Patent Number:	9655244
Patent Number:	9660218
Patent Number:	9681555
Patent Number:	9710120
Patent Number:	9727179
Patent Number:	9727203
Patent Number:	9743513
Patent Number:	9748516
Patent Number:	9763322
Patent Number:	9766749
Patent Number:	9775234
Patent Number:	9786790
Patent Number:	9795028
Patent Number:	9796874
Patent Number:	9811206
Patent Number:	9830018
Patent Number:	9830030
Patent Number:	9837635
Patent Number:	9847509
Patent Number:	9847512
Patent Number:	9853243
Patent Number:	9876193
Patent Number:	9921695
Patent Number:	9935289
Patent Number:	9946406
Patent Number:	9957362
Patent Number:	9959000

Property Type	Number
Patent Number:	9960245
Patent Number:	9978821
Patent Number:	7161226
Patent Number:	7444733
Patent Number:	7566950
Patent Number:	7575983
Patent Number:	7807551
Patent Number:	7919917
Patent Number:	7939425
Patent Number:	8715802
Patent Number:	8834655
Patent Number:	8859055
Patent Number:	8864540
Patent Number:	8883053
Patent Number:	8932804
Patent Number:	8945821
Patent Number:	9023448
Patent Number:	9142797
Patent Number:	9356249
Patent Number:	9373817
Patent Number:	9570712
Patent Number:	9770889

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	0003 TO 0149
NAME OF SUBMITTER:	BELINDA LEE
SIGNATURE:	/Belinda Lee/
DATE SIGNED:	03/15/2022

Total Attachments: 7
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ASSIGNMENT OF PATENTS

This ASSIGNMENT OF PATENTS is made and entered into this 1/24/2022 by and between Industrial Technology Research Institute (“ASSIGNOR”), located at No. 195, SEC.4, CHUNG-HSING ROAD, CHU-TUNG, HSIN-CHU, TAIWAN, R.O.C., and HANNSTAR DISPLAY CORPORATION, a corporation organized and existing under the laws of Republic of China (“R.O.C.”) and having a place of business at 26 F., No. 1, Songzhi Rd., Xinyi Dist., Taipei City 11047, Taiwan (R.O.C.) (“ASSIGNEE”).

RECITALS

WHEREAS, ASSIGNEE and ASSIGNOR are parties to a Patent Assignment Agreement dated September 30, 2021 (the “Agreement”), pursuant to which ASSIGNOR has agreed to sell to ASSIGNEE and ASSIGNEE has agreed to buy from ASSIGNOR of ASSIGNOR’s right, title and interest in and to certain patent rights described herein subject to the terms and conditions set forth therein. In connection therewith, ASSIGNOR has agreed to execute this separate Assignment of Patents in order to more effectively assign, transfer, grant, convey, assure and confirm to ASSIGNEE such patent rights.

WHEREAS, in accordance with and subject to the Agreement, ASSIGNOR desires to transfer and assign to ASSIGNEE, and ASSIGNEE desires to accept the transfer and assignment of ASSIGNOR’s right, title, and interest in, to and under the patents and patent applications identified below (“Patent Rights”):

	Patent/Patent Application	Patent Number/Application Number
1	Impact resistant structure and electronic device	16/039,336
2	Electronic device package	10396256/15/969,790
3	Touch panel driving apparatus	10606400/15/936,456
4	Thin film transistor and manufacturing method thereof	10644167/15/913,897
5	Package of electronic device and display panel	10644259/16/104,956
6	Protective structure and electronic device with the same	10964912/16/379,815
7	Impact resistant structure and electronic device	11007751/16/729,520
8	Touch panel	10025435/14/586,447
9	Semiconductor device	10083989/15/209,780
10	Touch panel and sensing method thereof	10168732/14/527,776

	Patent/Patent Application	Patent Number/Application Number
11	Foldable body and foldable display apparatus	10168733 / 15/099,611
12	Device for removing and adhering substrate and method for using the device	10173407 / 15/135,403
13	Flexible electronic device having barrier planarization layer including nitrogen-rich region and oxygen-rich region	10275062 / 15/591,120
14	Touch-sensing display panel	10379650 / 15/287,735
15	Sensing display apparatus	10411078 / 15/473,623
16	Driving device and driving method	10474291 / 15/484,119
17	Method of transferring devices	6982209 / 10/704,795
18	Method for manufacturing a flexible panel for a flat panel display	7147531 / 10/695,810
19	Pixel array	7221012 / 11/358,967
20	Substrate structures and fabrication methods thereof	7679081 / 11/625,791
21	OLED pixel structure and method for manufacturing the same	7883386 / 11/480,887
22	OLED pixel structure and method for manufacturing the same	7977870 / 12/688,318
23	Structure of thermal resistive layer and the method of forming the same	8029890 / 12/630,204
24	Package of environmentally sensitive electronic device and fabricating method thereof	8093512 / 12/487,658
25	Substrate, fabrication method thereof and a display using the same	8222810 / 12/424,536
26	Encapsulation method of environmentally sensitive electronic element	8236126 / 12/860,945
27	Track compensation methods and systems for touch-sensitive input devices	8400416 / 12/950,189
28	Package of environmental sensitive element	8446730 / 12/703,155
29	Method for fabricating the flexible electronic device	8557637 / 13/529,820
30	Package of environmental sensitive element and encapsulation method of the same	8624134 / 12/944,691
31	Fabrication method of substrate	8763243 / 13/525,369
32	Touch-sensing display apparatus and fabricating method thereof	8830202 / 12/703,163

	Patent/Patent Application	Patent Number/Application Number
33	Light emitting device	8878226/13/744,207
34	Touch sensitive device	8982088/12/690,908
35	Barrier functional film and manufacturing thereof, environmental sensitive electronic device, and display apparatus	9007538/14/051,461
36	Touch panel display system and driving method thereof	9013414/12/687,869
37	Touch sensing and feedback apparatuses and methods	9035894/13/749,303
38	Double-side light emitting display panel	9041280/13/753,449
39	System and method for improving visual effect of a display device	9053557/13/310,328
40	Projected capacitive touch device and touch control methods for projected capacitive panel thereof	9069422/13/413,628
41	Organic/inorganic multi-layered gas barrier film	9073287/12/618,792
42	Touch panel	9081431/13/721,039
43	Package of environmental sensitive element	9101005/13/867,136
44	Flexible display and method for controlling the flexible display	9123279/13/434,875
45	Tactile feedback apparatus	9123486/13/707,533
46	Package of environmental sensitive electronic element	9142798/13/354,298
47	Environmental sensitive electronic device package and manufacturing method thereof	9204557/14/073,875
48	Package of environmental sensitive element	9224700/14/730,253
49	Touch sensing film structure	9244554/14/161,164
50	Foldable display and image processing method thereof	9250851/13/759,090
51	Semiconductor device structure, method for manufacturing the same and pixel structure using the same	9252165/14/184,148
52	Functional film, environmentally sensitive electronic device package, and manufacturing methods thereof	9252389/13/909,082
53	Patterned conductive film, method of fabricating the same, and application thereof	9253890/14/080,810

	Patent/Patent Application	Patent Number/Application Number
54	Touch device, processor and touch signal accessing method thereof	9256321 / 14/311,817
55	Environmental sensitive electronic device package	9288897 / 14/065,435
56	Adhesive structure with hybrid adhesive layer	9333725 / 13/928,268
57	Component for fixing curvature of flexible device and deformation and fixing curvature method	9343213 / 14/162,768
58	Flexible electronic device	9345131 / 14/162,773
59	Control method, display device and electronic system utilizing the same	9367159 / 12/898,636
60	Electronic component and method for fabricating the same	9368441 / 14/560,101
61	Touch panel	9372509 / 14/526,551
62	Electronic device and method of manufacturing the same	9391208 / 14/517,065
63	Flexible device and fabrication method of flexible device	9408300 / 14/620,214
64	Foldable package structure	9412967 / 14/527,774
65	Touch sensing device	9437155 / 14/622,907
66	Environmental sensitive electronic device package having side wall barrier structure	9450202 / 14/065,434
67	Tactile feedback apparatus	9495846 / 14/141,447
68	Environmental sensitive electronic device package and manufacturing method thereof	9510459 / 14/098,551
69	Optical film structure having a light absorbing layer that improves the contrast of the display apparatus	9529124 / 14/846,444
70	Driver circuit with device variation compensation and operation method thereof	9543954 / 14/592,910
71	Bend sensor, bend sensing method and bend sensing system for flexible display panel	9557862 / 14/255,161
72	Environmental sensitive electronic device package	9565793 / 14/051,460
73	Electronic device package, electronic device structure and method of fabricating electronic device package	9591746 / 15/199,913
74	Bonding structure and flexible device	9607960 / 14/983,506
75	Touch sensing structure	9612698 / 14/535,331

	Patent/Patent Application	Patent Number/Application Number
76	Pixel driving method and associated display device	9613558/14/691,298
77	Flexible electronic device and method for manufacturing the same	9655244/15/356,522
78	Package of environmental sensitive element	9660218/14/948,394
79	Package of environmentally sensitive electronic device and fabricating method thereof	9681555/14/192,401
80	Sensing apparatus	9710120/14/985,373
81	Touch apparatus and touch sensing method thereof	9727179/14/151,821
82	Foldable display, flexible display and icon controlling method	9727203/14/151,376
83	Flexible electronic device	9743513/14/583,235
84	Functional film	9748516/14/948,392
85	Flexible substrate repair structure, manufacturing method thereof, and inspection and repair method of flexible substrate	9763322/15/394,831
86	Touch device and sensing compensation method	9766749/14/162,781
87	Flexible electronic device	9775234/14/691,588
88	Flexible device	9786790/15/062,222
89	Package structure of electronic device	9795028/15/051,645
90	Substrate structure, manufacturing method thereof, and method for manufacturing an electronic device	9796874/14/534,233
91	Touch sensing method, touch display apparatus and portable electronic device	9811206/14/881,159
92	Touch control apparatus and noise compensating circuit and method thereof	9830018/14/983,584
93	Flexible touch panel, touch control device and operating method using the same	9830030/14/706,618
94	Protective structure having anti-scratch layer	9837635/15/377,980
95	Package of flexible environmental sensitive electronic device and sealing member	9847509/15/003,803
96	Electronic device package structure and manufacturing method thereof	9847512/14/091,341

	Patent/Patent Application	Patent Number/Application Number
97	Flexible display and method for fabricating the same	9853243 / PCT/CN2013/14/899,939
98	Thin-film device	9876193 / 14/055,845
99	Touch device	9921695 / 14/803,875
100	Environmental sensitive element package and encapsulation method thereof	9935289 / 15/003,805
101	Optical film with touch function	9946406 / 14/985,370
102	Printable process for forming a multi-layered gas barrier laminate film	9957362 / 14/720,833
103	Touch sensing device	9959000 / 15/229,107
104	Transistor device having protruding portion from channel portion	9960245 / 15/458,984
105	Display device	9978821 / 15/393,277
106	Multi-layered complementary wire structure and manufacturing method thereof	7161226 / 11/131,084
107	Alignment precision enhancement of electronic component process on flexible substrate device and method thereof of the same	7444733 / 11/289,356
108	Flexible pixel array substrate	7566950 / 11/164,408
109	Method for fabricating a device with flexible substrate and method for stripping flexible-substrate	7575983 / 11/256,399
110	Method for fabricating flexible pixel array substrate	7807551 / 12/487,657
111	Reflective liquid crystal display, top-emitting OLED display and fabrication method thereof	7919917 / 12/358,098
112	Method of fabricating a device with flexible substrate and method for stripping flexible-substrate	7939425 / 12/497,297
113	Transferring structure for flexible electronic device and method for fabricating flexible electronic device	8715802 / 12/488,444
114	Method for isolating flexible substrate from support substrate	8834655 / 12/571,833
115	Method for patterning flexible substrate	8859055 / 13/103,943
116	Fabricating method of gas barrier substrate,organic electro-luminescent device and packaging method thereof	8864540 / 13/895,379
117	Method for isolating flexible film from support substrate	8883053 / 12/571,979

	Patent/Patent Application	Patent Number/Application Number
118	Method for patterning flexible substrate	8932804/14/487,037
119	Method for patterning flexible substrate	8945821/14/487,047
120	Substrate structures applied in flexible devices	9023448/13/774,104
121	Gas barrier substrate and organic electro-luminescent device	9142797/14/481,924
122	Organic electronic device and electric field-induced carrier generation layer	9356249/14/501,029
123	Substrate structure and device employing the same	9373817/14/737,882
124	Organic light-emitting module	9570712/14/447,626
125	Composite plate structure and flexible apparatus	9770889/14/623,500

NOW, THEREFORE, ASSIGNOR, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, does hereby transfer and assign to ASSIGNEE, subject to the terms and conditions set forth in the Agreement, ASSIGNOR's right, title, and interest in, to, and under the Patent Rights, the same to be held and enjoyed by the said ASSIGNEE, and its successors and assigns from and after the date hereof as fully and entirely as the same would have been held and enjoyed by the said ASSIGNOR had this Assignment of Patents not been made .

For avoidance of doubt, this Assignment of Patents does not waive, alter, supersede or nullify any terms of the Agreement or any obligations set forth in the laws or regulations of the Republic of China ("R.O.C.") that the Agreement and the Patent Rights are subject to. ASSIGNEE, and its successors and assigns, shall comply with the laws and regulations of R.O.C. and all terms of the Agreement, including, but not limited to, obtaining approvals from ITRI and/or the Ministry of Economic Affairs of R.O.C., prior to any subsequent assignment of the Patent Rights.

IN WITNESS WHEREOF, ASSIGNOR has caused its duly authorized officer to execute this Assignment of Patents as of the date written below.

Industrial Technology Research Institute

By: Chan-Chih Chang

Date: 1/26/2022

Name: Chan-Chih Chang

Title: Division Director