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1. [20210223440](#) ARRAY SUBSTRATE AND MANUFACTURING METHOD THEREOF, DISPLAY PANEL AND DISPLAY DEVICE US - 22.07.2021

Int.Class [G02B 1/115](#) Appl.No 16632030 Applicant BEIJING BOE DISPLAY TECHNOLOGY CO., LTD. Inventor Shoukun Wang

An array substrate and a manufacturing method thereof, a display panel and a display device are disclosed. The array substrate includes a transparent base substrate and an electrode structure provided on the transparent base substrate, the electrode structure including an anti-reflective layer and a first electrode layer, the anti-reflective layer being located between the first electrode layer and the transparent base substrate.

2. [20190363104](#) ARRAY SUBSTRATE, DISPLAY APPARATUS, PIXEL DRIVING CIRCUIT, METHOD FOR DRIVING IMAGE DISPLAY IN DISPLAY APPARATUS, AND METHOD OF FABRICATING ARRAY SUBSTRATE US - 28.11.2019

Int.Class [H01L 27/12](#) Appl.No 16333324 Applicant Chongqing BOE Optoelectronics Technology Co., Ltd. Inventor Yulong Chen

The present application provides an array substrate. The array substrate in each of a plurality of subpixel areas includes a first thin film transistor having a first gate electrode connected to one of a plurality of gate lines, a first source electrode connected to one of a plurality of data lines, and a first drain electrode connected to a pixel electrode; a second thin film transistor having a second gate electrode, a second source electrode connected to the one of the plurality of data lines, and a second drain electrode connected to the pixel electrode; and a third thin film transistor having a third gate electrode connected to the one of the plurality of data lines, a third source electrode connected to the one of the plurality of gate lines, and a third drain electrode connected to the second gate electrode and one of a plurality of auxiliary signal lines.

3. [WO/2019/222910](#) ARRAY SUBSTRATE, DISPLAY APPARATUS, PIXEL DRIVING CIRCUIT, METHOD FOR DRIVING IMAGE DISPLAY IN DISPLAY APPARATUS, AND METHOD OF FABRICATING ARRAY SUBSTRATE WO - 28.11.2019

Int.Class [G02F 1/1362](#) Appl.No PCT/CN2018/087830 Applicant BOE TECHNOLOGY GROUP CO., LTD. Inventor CHEN, Yulong

An array substrate having a plurality of subpixel areas includes: a first thin film transistor [T1] having a first active layer [ACT1], a first gate electrode [G1] connected to one of the plurality of gate lines [GL], a first source electrode [S1] connected to one of the plurality of data lines [DL], and a first drain electrode [D1] connected to the pixel electrode [PIX]; a second thin film transistor [T2] having a second active layer [ACT2], a second gate electrode [G2], a second source electrode [S2] connected to the one of the plurality of data lines [DL], and a second drain electrode [D2] connected to the pixel electrode [PIX]; and a third thin film transistor [T3] having a third active layer [ACT3], a third gate electrode [G3] connected to the one of the plurality of data lines [DL], a third source electrode [S3] connected to the one of the plurality of gate lines [GL], and a third drain electrode [D3] connected to the second gate electrode [G2] and one of a plurality of auxiliary signal lines [AUX].

4. [106697699](#) AUTOMATIC AUXILIARY MATERIAL DISTRIBUTING AND WAREHOUSING LOGISTICS SYSTEM WITH INGREDIENT CONVEYOR LINE CN - 24.05.2017

Int.Class [B65G 1/04](#) Appl.No 102017000051901 Applicant "Hongyunhonghe Tobacco (Group) Co., Ltd." Inventor LI HONGCHUN

The invention provides an automatic auxiliary material distributing and warehousing logistics system with an ingredient conveyor line, comprising an unloading and unpacking conveyor line, a temporary storehouse, a classification conveyor line, an ingredient conveyor line, an inspection ingredient line, a warehousing conveyor line and a tray combination line, and characterized in that the ingredient conveyor line comprises a plurality of transverse conveyor lines arranged in parallel, a plurality of longitudinal conveyor lines arranged in parallel, and manipulators or/and robots arranged between the plurality of transverse conveyor lines and the plurality of longitudinal conveyor lines, and the plurality of transverse conveyor lines are vertical to the plurality of longitudinal conveyor lines; a steering conveyor is arranged at the vertical intersection between each transverse conveyor line and each longitudinal conveyor line, and the inlet end of each longitudinal conveyor line is connected to the corresponding output end of the classification conveyor line. Multiple auxiliary material distributing tasks, such as single distribution, mixed distribution and manual distribution, of various auxiliary materials, such as container type, tray type and whole stack type, are achieved completely, and the distribution process and warehousing efficiency are improved greatly; the labor intensity is reduced, the operating space is saved, and the automatic level of auxiliary material warehousing is improved.

5. [106829294](#) AUTOMATIC AUXILIARY MATERIAL COMPOSING, CONVEYING AND WAREHOUSING LOGISTICS SYSTEM CN - 13.06.2017

Int.Class [B65G 1/04](#) Appl.No 102017000051852 Applicant HONGYUNHONGHE TOBACCO (GROUP) CO., LTD. Inventor DUAN QINGNA

The invention provides an automatic auxiliary material composing, conveying and warehousing logistics system which comprises an unloading, unpacking and conveying line, a temporary storage warehouse, a classifying and conveying line, a formulation conveying line, a formulation inspecting line, a warehousing and conveying line and a pallet merging line. The system is characterized in that an inlet end of the temporary storage warehouse is connected with an outlet end of the unloading, unpacking and conveying line, the classifying and conveying line is positioned above the temporary storage warehouse, an input end of the classifying and conveying line is connected with an output end of the unloading, unpacking and conveying line while an output end of the same is connected with the formulation conveying line which is positioned on one side of the temporary storage warehouse, the formulation inspecting line is arranged on one side of the formulation conveying line, the warehousing and conveying line is arranged at an output end of the temporary storage warehouse, and the pallet merging line is arranged on the other side of the temporary storage warehouse. By the system, various auxiliary material composing tasks of single composing, mixed composing and artificial composing of box-type, disc-type and whole-stack auxiliary materials are realized completely, composing process and warehousing working efficiency are improved greatly, labor intensity is lowered, operation space is saved, and automation level of an auxiliary material warehouse is improved greatly.



6. [206437652](#) TAKE AUXILIARY MATERIAL WAREHOUSE ENTRY LOGISTICS SYSTEM OF AUTOMATIC CLASSIFICATION TRANSFER CHAIN CN - 25.08.2017

Int.Class [B65G 67/24](#) Appl.No 201720088606.4 Applicant HONGYUN HONGHE TOBACCO (GROUP) CO., LTD. Inventor DUAN QINGNA

The utility model provides a take auxiliary material warehouse entry logistics system of automatic classification transfer chain, include the bale breaking transfer chain of unloading, the storehouse of keeping in, categorised transfer chain, the prescription transfer chain, the transfer chain is put in storage to inspection prescription line, and the tray closes a set line, its characterized in that categorised transfer chain includes many feeding transfer chains, many cross feed lines, many vertical transfer chains, and many cross feed lines and many vertical transfer chains are in the vertical direction setting of staggering to set up a plurality of transition transfer chains between many cross feed lines and many vertical transfer chains, the input of each feeding transfer chain through first slope conveyer with unload that bale breaking conveying system output links to each other, the output links to each other with the cross feed line that corresponds, the cross feed line links to each other through transition transfer chain and the vertical transfer chain that corresponds, vertical transfer chain links to each other with the prescription transfer chain, a set task is joined in marriage to multiple auxiliary materials such as having realized singly the joining in marriage of multiple auxiliary materials such as case class, dish type, whole buttress class, thoughtlessly joined in marriage, the manual work is joined in marriage, has greatly improved and has joined in marriage set flow and put work efficiency in storage.

7. [206437481](#) AUTOMATIC SET WAREHOUSE ENTRY LOGISTICS SYSTEM THAT JOINS IN MARRIAGE OF AUXILIARY MATERIAL OF AREA PRESCRIPTION TRANSFER CHAIN CN - 25.08.2017

Int.Class [B65G 1/04](#) Appl.No 202017000078203 Applicant HONGYUN HONGHE TOBACCO (GROUP) CO., LTD. Inventor LI HONGCHUN

The utility model provides an automatic set warehouse entry logistics system that joins in marriage of auxiliary material of area prescription transfer chain, include the bale breaking transfer chain of unloading, the storehouse of keeping in, categorised transfer chain, the prescription transfer chain, the transfer chain is put in storage to inspection prescription line, and the tray closes a set line, its characterized in that: the prescription transfer chain is including many cross feed lines that set up side by side to many vertical transfer chains that row set up manipulator or / and robot between many cross feed lines, many vertical transfer chains, and many cross feed lines and many vertical transfer chain mutually perpendicular, and set up the steering conveyor in each horizontal, vertical transfer chain vertical cross department, and it is continuous that the entry end of each vertical transfer chain and categorised transfer chain correspond the output. A set task is joined in marriage to multiple auxiliary materials such as having realized singly the joining in marriage of multiple auxiliary materials such as case class, dish type, whole buttress class completely, thoughtlessly joined in marriage, the manual work is joined in marriage, has greatly improved and has joined in marriage set flow and warehouse entry work efficiency, reduces intensity of labour, saves the operating space, the automatic level in improvement auxiliary material storehouse.

8. [206437480](#) AUXILIARY MATERIAL IS AUTOMATIC JOINS IN MARRIAGE SET, CARRY, WAREHOUSE ENTRY LOGISTICS SYSTEM CN - 25.08.2017

Int.Class [B65G 1/04](#) Appl.No 202017000077497 Applicant HONGYUN HONGHE TOBACCO (GROUP) CO., LTD. Inventor DUAN QINGNA

The utility model provides an auxiliary material is automatic joins in marriage set, carry, warehouse entry logistics system, include the bale breaking transfer chain of unloading, the storehouse of keeping in, categorised transfer chain, the prescription transfer chain, the transfer chain is put in storage to inspection prescription line, and the tray closes a set line, its characterized in that: keep in the storehouse entry end with unload, bale breaking, transfer chain exit end link to each other, categorised transfer chain is located the storehouse top of keeping in, and categorised transfer chain input with unload, bale breaking, transfer chain output link to each other, the output links to each other with the prescription transfer chain, the prescription transfer chain is located the storehouse one side of keeping in, prescription transfer chain one side is located to inspection prescription line, the storehouse exit end of keeping in is located to the warehouse entry transfer chain, the tray closes a set line and locates the storehouse opposite side of keeping in. A set task is joined in marriage to multiple auxiliary materials such as having realized singly the joining in marriage of case class, dish type, whole buttress type auxiliary material completely, thoughtlessly joined in marriage, the manual work joins in marriage, has greatly improved and has joined in marriage set flow and warehouse entry work efficiency, reduces intensity of labour, saves the operating space, has improved the automatic level in auxiliary material storehouse greatly.

9. [113745551](#) ANODE CATALYST LAYER SLURRY AND PREPARATION METHOD THEREOF CN - 03.12.2021

Int.Class [H01M 4/92](#) Appl.No 202110932579.5 Applicant STATE POWER INVESTMENT GROUP HYDROGEN ENERGY TECHNOLOGY DEVELOPMENT CO., LTD. Inventor ZHANG AIJING

The invention discloses anode catalyst layer slurry which comprises perfluorosulfonic acid resin, polytetrafluoroethylene, a Pt/C catalyst, a solvent and water, wherein the perfluorosulfonic acid resin is short-chain resin with an EW value of 650-750 g/mol, the mass content of polytetrafluoroethylene in the anode catalyst layer slurry is 1-5%, a mass ratio I/C of the perfluorosulfonic acid resin to a carbon carrier in the Pt/C catalyst is 0.7-1.0, the solid content of the anode catalyst layer slurry is 2-15%, the solvent is selected from at least one of ethanol, normal propyl alcohol or isopropanol, and the mass content of Pt in the Pt/C catalyst is 30-60%. The anode catalyst layer slurry provided by the embodiment of the invention is used for preparing a membrane electrode and is suitable for working conditions of vehicle fuel cells; and under the conditions of high temperature, low humidity, low excess coefficient and an anode pulse drainage device, the diffusion of the catalyst layer can be remarkably improved, and relatively low internal resistance of the battery is ensured while effective water retention is realized.

10. [109870880](#) GUMMING EQUIPMENT AND GUMMING METHOD CN - 11.06.2019

Int.Class [G03F 7/16](#) Appl.No 201910279647.5 Applicant HEFEI BOE DISPLAY TECHNOLOGY CO., LTD. Inventor WANG TAO

The invention discloses gumming equipment and a gumming method. The gumming equipment comprises a substrate placement area, wherein the substrate placement area is used for placing a substrate to be gummed, a movable shower nozzle is arranged above the substrate placement area and is used for spraying photoresist, and a plurality of lasers are arranged below the substrate placement area. According to the technical scheme provided by the embodiment of the invention, the plurality of lasers are added in the gumming equipment to carry out the edge gumming edge curing of the substrate, photoresistirregular flowing caused in a substrate transmission process can be effectively avoided, the evenness of a photoresist film layer before exposure is improved, exposure accuracy is improved, defects, including photoresist residue and the like, can be effectively avoided, and meanwhile, photoresist coating and curing is integrated to save subsequent steps and shorten the production time of a single product.

