

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0213260 A1

Jun. 27, 2024 (43) **Pub. Date:**

(54) ARRAY SUBSTRATE, MANUFACTURING METHOD THEREOF, AND DISPLAY PANEL

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(21) Appl. No.: 18/192,649

(22)Filed: Mar. 30, 2023

(30)Foreign Application Priority Data

Dec. 21, 2022 (CN) 202211652814.4

Publication Classification

(51) Int. Cl. H01L 27/12 (2006.01)

(52) U.S. Cl. CPC H01L 27/1237 (2013.01); H01L 27/127 (2013.01)

(57)ABSTRACT

An array substrate, a manufacturing method thereof, and a display panel are provided by the present application. The array substrate includes an active layer, a gate electrode and an interlayer insulation layer. A content of hydrogen in the interlayer insulation layer is greater than or equal to a content of hydrogen in the active layer, and the hydrogen in the interlayer insulation layer can be transferred to the active layer. A sheet resistance value of the active layer is less than 1000 ohm/square. Because the hydrogen in the interlayer insulation layer can directly diffuse and transfer to the active layer, the hydrogen content in the active layer can be increased to achieve the purpose of conductivity, thus eliminating the process of ion doping in the active layer, simplifying a preparation process of the array substrate, and improving comprehensive performance of the array substrate.

