US 20230232550A1

(19) United States
(12) Patent Application Publication
HU et al.

(10) Pub. No.: US 2023/0232550 A1
(43) Pub. Date: Jul. 20, 2023

(54) **FLEXIBLE DISPLAY MODULE AND DISPLAY DEVICE**

(71) Applicant: **SHENZHEN SKYWORTH-RGB ELECTRONIC CO., LTD.**, Shenzhen (CN)

(72) Inventors: **Lingchao HU**, Shenzhen (CN); **Shan LIU**, Shenzhen (CN); **Weixiong CHEN**, Shenzhen (CN); **Yubao GUO**, Shenzhen (CN); **Beijing YANG**, Shenzhen (CN)

(73) Assignee: **SHENZHEN SKYWORTH-RGB ELECTRONIC CO., LTD.**, Shenzhen (CN)

(21) Appl. No.: **17/714,399**

(22) Filed: **Apr. 6, 2022**

Related U.S. Application Data

(63) Continuation of application No. PCT/CN2021/143264, filed on Dec. 30, 2021.

Publication Classification

(51) **Int. Cl.**
H05K 5/02 (2006.01)
H05K 5/00 (2006.01)

(52) **U.S. Cl.**
CPC ***H05K 5/02*** (2013.01); ***H05K 5/0017*** (2013.01)

(57) **ABSTRACT**

Disclosed are a flexible display module and a display device. The flexible display module includes a flexible display panel; an elastic backplane arranged at a side of the flexible display panel; a flexible magnetically-attractive layer attached and connected with a side of the flexible display panel facing the elastic backplane; and a magnetically-attractive elastic member connected with the side of the flexible magnetically-attractive layer facing the elastic backplane and with a side of the elastic backplane facing the flexible display panel. According to the technical scheme provided by the application, when the curvature of the flexible display module changes, the phenomenon of dislocation between the edge of the flexible display panel and the edge of the elastic backplane can be improved.