

# (19) United States

## (12) Patent Application Publication (10) Pub. No.: US 2024/0215188 A1 GAO et al.

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

## (54) COVER PLATE FOR FOLDABLE DISPLAY MODULE, FOLDABLE DISPLAY MODULE AND DISPLAY DEVICE

- (71) Applicant: BOE Technology Group Co., Ltd., Beijing (CN)
- (72) Inventors: Biao GAO, Beijing (CN); Zhao LI, Beijing (CN)
- (21) Appl. No.: 17/909,763
- PCT Filed: (22)Nov. 17, 2021
- (86) PCT No.: PCT/CN2021/131072 § 371 (c)(1),
  - (2) Date: Sep. 29, 2022

### (30)Foreign Application Priority Data

Mar. 26, 2021 (CN) ...... 202110326937.8

### **Publication Classification**

(51) Int. Cl. H05K 5/03 (2006.01)

U.S. Cl. (52)CPC ...... *H05K 5/03* (2013.01)

(57)ABSTRACT

A cover plate for a foldable display module, a foldable display module and a display device are provided, the cover plate is disposed at a display side of a flexible display substrate, the foldable display module includes a bending region through which the foldable display module is folded and unfolded. The cover plate includes a first region corresponding to a position of the bending region and a second region positioned at two sides of the first region, and the cover plate further includes a first surface configured to face the flexible display substrate. The cover plate includes first and second side edges parallel to a first direction, the first direction is perpendicular to a bending axis of the foldable display module, and a portion of the second region close to the first side edge or/and the second side edge has a reinforcement strip which is disposed on the first surface.

