

### (19) United States

# (12) Patent Application Publication (10) Pub. No.: US 2024/0237242 A1

Ferguson et al.

Jul. 11, 2024 (43) Pub. Date:

### (54) STRUCTURAL SUPPORT FOR A DISPLAY **APPARATUS**

(71) Applicant: Rosen Aviation, LLC, Eugene, OR

Inventors: Brock E. Ferguson, Cottage Grove, OR (US); Scott A. Charles, Eugene, OR (US)

(73) Assignee: Rosen Aviation, LLC, Eugene, OR (US)

Appl. No.: 18/521,892

(22) Filed: Nov. 28, 2023

### Related U.S. Application Data

(60) Provisional application No. 63/437,284, filed on Jan. 5, 2023.

## 100

#### **Publication Classification**

(51) Int. Cl. H05K 5/02 (2006.01)B32B 7/12 (2006.01)B32B 37/12 (2006.01)

(52)U.S. Cl. H05K 5/0217 (2013.01); B32B 7/12 CPC ..... (2013.01); B32B 37/12 (2013.01); B32B 2457/20 (2013.01)

#### (57)**ABSTRACT**

A method for improving structural support for a display apparatus comprising a flat panel display and a circuit board situated at a back side of the flat panel display can include preparing a chassis, applying a first adhesive member to selective areas on a front surface of the chassis, and bonding the front surface of the chassis to the back side of the flat panel display using the first adhesive member. The first adhesive member is deformable under a shear force that is coplanar with the flat panel display.

