



US 20240237249A1

(19) **United States**

(12) **Patent Application Publication**
Anderson et al.

(10) **Pub. No.: US 2024/0237249 A1**

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

(54) **HINGE SYSTEM FOR SWING OUT PANEL**

Publication Classification

(71) Applicant: **Hoffman Enclosures Inc.**, Anoka, MN (US)

(51) **Int. Cl.**
H05K 7/14 (2006.01)
E05D 3/02 (2006.01)
E05D 5/06 (2006.01)

(72) Inventors: **William Anderson**, Blaine, MN (US);
Rony Khalife, Coon Rapids, MN (US);
Asrar Khan, Fridley, MN (US);
Ahmed Sheikh, Minneapolis, MN (US);
Nicole Stevens, Anoka, MN (US)

(52) **U.S. Cl.**
CPC **H05K 7/14** (2013.01); **E05D 3/02** (2013.01); **E05D 5/06** (2013.01); **E05Y 2201/218** (2013.01); **E05Y 2201/224** (2013.01); **E05Y 2900/60** (2013.01)

(21) Appl. No.: **18/406,681**

(57) **ABSTRACT**

(22) Filed: **Jan. 8, 2024**

An enclosure can include an enclosure body and a door secured by an external hinge. A swing out panel can be secured by an internal hinge. The internal hinge can include a support body and a pivot body that can prevent the inward rotation of the swing out panel. The internal hinge can be secured at the external hinge. A retainer clip can include a mounting portion secured onto a swing out panel and a clip portion to engage a door opening.

Related U.S. Application Data

(60) Provisional application No. 63/478,807, filed on Jan. 6, 2023.

