



US 20220360061A1

(19) **United States**(12) **Patent Application Publication****Desai et al.**(10) **Pub. No.: US 2022/0360061 A1**(43) **Pub. Date: Nov. 10, 2022**(54) **SPLICE FOR CABLE TRAY AND CABLE TRAY ASSEMBLY INCLUDING SAME**(52) **U.S. Cl.**CPC *H02G 3/0608* (2013.01); *F16L 3/26* (2013.01); *F16B 7/042* (2013.01)(71) Applicant: **Eaton Intelligent Power Limited,**
Dublin (IE)(72) Inventors: **Jayram Shivajirao Desai,** Kolhapur (IN); **Lalit Subhash Khairnar,** Pune (IN)

(57)

ABSTRACT(73) Assignee: **Eaton Intelligent Power Limited,**
Dublin (IE)(21) Appl. No.: **17/737,509**(22) Filed: **May 5, 2022****Related U.S. Application Data**

(60) Provisional application No. 63/184,531, filed on May 5, 2021.

Publication Classification(51) **Int. Cl.**
H02G 3/06 (2006.01)
F16L 3/26 (2006.01)
F16B 7/04 (2006.01)

The present disclosure provides a cable tray assembly comprising a cable tray splice, first cable tray section, and second cable tray section adjacent the first cable tray section with both sections having a bottom wall. The cable tray splice couples to the bottom walls. The cable tray splice may include at least two fasteners and a splice body configured to engage adjacent cable tray sections. The fasteners are configured to couple the splice body to the adjacent cable tray sections and include a spring producing a biasing force against the splice body. The disclosure provides a method to form a cable tray assembly including positioning the two cable tray sections end-to-end, positioning a splice body on bottom walls of the two cable tray sections, inserting a fastener through aligned openings in the splice body and the bottom walls, and applying a spring biasing force to the splice body.

