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(19) **United States**(12) **Patent Application Publication****Watsuji et al.**(10) **Pub. No.: US 2024/0178684 A1**(43) **Pub. Date: May 30, 2024**(54) **DOCKING ASSEMBLY FOR AN
ELECTRONIC DEVICE****Publication Classification**(51) **Int. Cl.****H02J 7/00** (2006.01)**B60L 53/37** (2006.01)**H01R 13/629** (2006.01)(52) **U.S. Cl.****CPC** **H02J 7/0045** (2013.01); **B60L 53/37**
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ABSTRACT

Docking assembly **1000** for charging a battery of an electronic device, in particular a robot, comprising a first docking element **1** and a second docking element **2**. If the first docking element **1** docks to the second docking element **2**, a concave recess of the first docking element **1** positively fits into a convex protrusion of the second docking element **2** in a direction of a center axis **100** of the concave recess.

