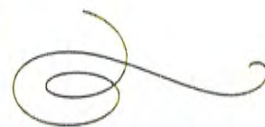


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*of the United States Patent and Trademark Office has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.*

*Therefore, this United States*

**Patent**

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DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



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(12) **United States Patent**  
**Chen**

(10) **Patent No.:** **US 11,396,392 B2**

(45) **Date of Patent:** **Jul. 26, 2022**

(54) **PARALLEL METHOD FOR PACKAGING ELECTRONIC COMPONENT AND COATING ADHESIVE ON CARRIER TAPE AND MECHANISM FOR SAME**

(58) **Field of Classification Search**  
CPC ..... B65B 15/04; B65B 9/04; B65B 9/045; B29C 65/48; B29C 66/344; B29C 66/47;  
(Continued)

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(56) **References Cited**

(72) Inventor: **Tzu-Chung Chen**, Taichung (TW)

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(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 289 days.

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(21) Appl. No.: **16/758,011**

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(57) **ABSTRACT**

(51) **Int. Cl.**  
**B65B 15/04** (2006.01)  
**H05K 13/04** (2006.01)  
(Continued)

The present invention provides a parallel method for packaging an electronic component and coating an adhesive on a carrier tape and a mechanism for same, so as to regulate continuous output of an adhesive and intermittent movement in packaging work, so that during a short pause of placing an electronic component, a continuously output adhesive is prevented from being repeatedly applied at a fixed position of a carrier tape. In this way, excessive application of an adhesive can be avoided, and it can be further ensured that the quality of packaging is not affected by an excessive amount of an adhesive.

(52) **U.S. Cl.**  
CPC ..... **B65B 15/04** (2013.01); **B29C 65/48** (2013.01); **B29C 66/344** (2013.01); **B29C 66/47** (2013.01);  
(Continued)

**16 Claims, 8 Drawing Sheets**

