



US 20240215152A1

(19) **United States**

(12) **Patent Application Publication**
LI

(10) **Pub. No.: US 2024/0215152 A1**

(43) **Pub. Date: Jun. 27, 2024**

(54) **SURFACE TENSION DRIVEN FLEXIBLE
ELECTRONICS TRANSFER PRINTING
METHOD**

H05K 3/12 (2006.01)

H05K 3/46 (2006.01)

(52) **U.S. Cl.**

CPC **H05K 1/028** (2013.01); **H05K 3/0085**

(2013.01); **H05K 3/1275** (2013.01); **H05K**

3/4638 (2013.01); **H05K 2203/0766** (2013.01);

H05K 2203/14 (2013.01)

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(21) Appl. No.: **18/031,957**

(22) PCT Filed: **Nov. 14, 2022**

(86) PCT No.: **PCT/CN2022/131582**

§ 371 (c)(1),

(2) Date: **Apr. 14, 2023**

(30) **Foreign Application Priority Data**

Nov. 19, 2021 (CN) 202111374107.9

Publication Classification

(51) **Int. Cl.**

H05K 1/02 (2006.01)

H05K 3/00 (2006.01)

(57) **ABSTRACT**

The present invention discloses a surface tension driven flexible electronics transfer printing method which uses a surfactant liquid membrane or a surfactant bubble as a transfer printing stamp, to realize the transfer printing of an electronic device with nanometer/micron/submillimeter thickness. A process of transfer printing is transparent and visible in a “what you see is what you get” manner to realize the accurate positioning of the electronic device. A local load technology is introduced, which is suitable for arbitrary complex curved substrate to realize diverse transfer printing. The electronic device can be transfer-printed to an application substrate with extremely-low interfacial adhesion, without the requirement for the strong and weak adhesion switching strategy of the traditional transfer printing. An unbearably electronic device membrane can be transfer-printed to an fragile receiving substrate with no loss or low loss, without the introduction of pre-pressure.

