

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0224429 A1 Ramsamy et al.

(43) **Pub. Date:**

Jul. 4, 2024

(54) METHOD FOR MANUFACTURING A SENSOR COMPRISING AT LEAST TWO SEPARATE ELECTRODES, AND SENSOR

(71) Applicant: Linxens Holding, Mantes-la-Jolie (FR)

(72) Inventors: Catheline Ramsamy, Buchelay (FR); Nicolas DE GUILLEBON, Buchelay

(FR); Simon VASSAL, Buchelay (FR)

18/555,031 (21) Appl. No.:

(22) PCT Filed: Apr. 13, 2022

(86) PCT No.: PCT/EP2022/059938

§ 371 (c)(1),

(2) Date: Oct. 12, 2023

(30)Foreign Application Priority Data

Apr. 14, 2021 (FR) FR2103854

Publication Classification

(51) Int. Cl. H05K 3/10 (2006.01)C25D 5/10 (2006.01)C25D 7/00 (2006.01)H05K 1/02 (2006.01)

(52) U.S. Cl.

CPC (2013.01); C25D 7/00 (2013.01); H05K 1/028 (2013.01)

ABSTRACT

A process for manufacturing a sensor including at least two electrodes, including providing a flexible dielectric substrate having a layer of electrically conductive material on at least one of its sides. The electrodes, conductive connecting tracks and a common current supply track are etched in the layer of electrically conductive material. The process further includes electrodepositing one or more layers on the two electrodes and a step of selectively depositing, electrochemically, on at least one electrode, at least one layer of a material different from the one or more materials already deposited on another electrode.

