



(12) **CORRECTED EUROPEAN PATENT APPLICATION**
published in accordance with Art. 153(4) EPC

(15) Correction information:
Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 71

(48) Corrigendum issued on:
14.12.2022 Bulletin 2022/50

(43) Date of publication:
24.11.2021 Bulletin 2021/47

(21) Application number: **20741059.8**

(22) Date of filing: **16.01.2020**

(51) International Patent Classification (IPC):
H02N 11/00 ^(2006.01) **C01B 32/168** ^(2017.01)
C01B 32/174 ^(2017.01)

(52) Cooperative Patent Classification (CPC):
H01L 41/0478; C01B 32/168; C01B 32/174;
H01L 41/29; C01P 2004/50; C01P 2004/61;
C01P 2004/62; H01L 41/0986; H01L 41/193

(86) International application number:
PCT/JP2020/001210

(87) International publication number:
WO 2020/149353 (23.07.2020 Gazette 2020/30)

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR

(30) Priority: **18.01.2019 JP 2019007012**

(71) Applicants:
• **Chiba, Seiki**
Tokyo 152-0023 (JP)
• **Waki, Mikio**
Sakura-shi, Tochigi 329-1334 (JP)
• **Zeon Corporation**
Tokyo 100-8246 (JP)

(72) Inventors:
• **CHIBA, Seiki**
Tokyo 152-0023 (JP)

- **WAKI, Mikio**
Sakura-shi, Tochigi 329-1334 (JP)
- **OYA, Noriyuki**
Nagoya-shi, Aichi 455-8668 (JP)
- **TAKESHITA, Makoto**
Tokyo 100-8246 (JP)
- **UEJIMA, Mitsugu**
Tokyo 100-8246 (JP)

(74) Representative: **Schäfflein, Christian Georg**
Maiwald GmbH
Elisenhof
Elisenstraße 3
80335 München (DE)

(54) **DIELECTRIC ELASTOMER TRANSDUCER AND METHOD FOR PRODUCING DIELECTRIC ELASTOMER TRANSDUCER**

(57) A dielectric elastomer transducer A1 includes a dielectric elastomer layer 11 and a pair of electrode layers 12 sandwiching the dielectric elastomer layer 11. The

electrode layers 12 contain ground carbon particles derived from carbon nanotubes. This configuration ensures both stretchability and electrical conductivity.

FIG.1

