



(12) **CORRECTED EUROPEAN PATENT APPLICATION**

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

(51) International Patent Classification (IPC):
H03H 3/02 ^(2006.01) **H03H 9/19** ^(2006.01)

(52) Cooperative Patent Classification (CPC):
H03H 3/02; H03H 9/19

(48) Corrigendum issued on:
16.10.2024 Bulletin 2024/42

(43) Date of publication:
31.07.2024 Bulletin 2024/31

(21) Application number: **24150519.7**

(22) Date of filing: **05.01.2024**

(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 ME MK MT NL
NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA
Designated Validation States:
KH MA MD TN

(30) Priority: **07.01.2023 TW 112100761**

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(54) **CRYSTAL OSCILLATOR AND METHOD FOR MAKING THE SAME**

(57) A crystal oscillator includes an oscillating main body (2), a top electrode layer (3), a bottom electrode layer (4), and a magnetic layer (5). The oscillating main body (2) includes a thinned portion (21) and a side portion (22). The thinned portion (21) has upper and lower surfaces (211, 212) respectively defining upper and lower surface work portions (2111, 2121). The side portion (22) is connected to one end of the thinned portion (21). The top electrode layer (3) is disposed on the upper surface (211), and includes a top work portion (31) disposed on the upper surface work portion (2111). The bottom electrode layer (4) is disposed on the lower surface (212), and includes a bottom work portion (41) disposed on the lower surface work portion (2121). The magnetic layer (5) is disposed on the side portion (22), and is spaced apart from the top electrode layer (3).

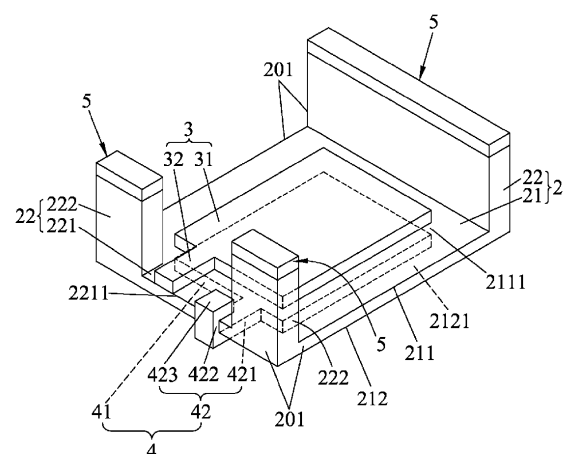


FIG. 18