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(71) **Applicant:** SUNSTAR SUISSE SA [CH/CH]; Route de Pallatex 15, CH-1163 Etov (CH).

(72) **Inventors:** HAUGLAND, Morten; Kirkedalen 88, DK-9230 Svenstrup (DK). **CHRISTIANSEN, Christian;** Jeppe Aakjærs Vej 34, DK-3460 Birkerød (DK). **TAKANO, Nao;** Route du Pavement 39, CH-1018 Lausanne (CH).

(74) **Agent: HØIBERG A/S**; St. Kongensgade 59 A, DK-1264 Copenhagen K (DK).

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(54) Title: AUTOMATIC DETECTION OF TEETH CLENCHING AND/OR TEETH GRINDING

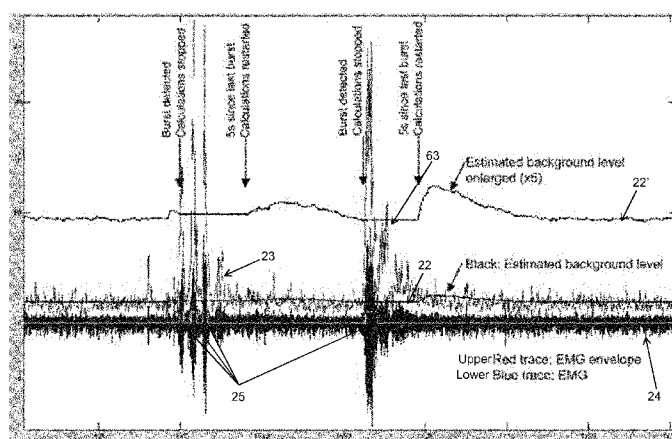


Fig. 2

(S7) Abstract: The present disclosure provides a computer implemented method for automatic detection of teeth clenching and/or teeth grinding in a dataset representing the level of biting force vs. time of a subject, the method comprising the steps of a) calculating a threshold level of biting force assigned to time $t=t_1$ based on a background level determined from the dataset at a prior time $t=t_1-T_{back}$, where T_{back} is a first predefined period of time, b) checking the level of biting, and if the level of biting force at time, t , exceeds the threshold level assigned to time t for a second predefined period of time, $T_{clench/grind}$, then assigning an event of teeth clenching to time t , c) if an event of teeth clenching has been assigned to time t , then either waiting a predefined period of time $10 T_{wait}$, or waiting until the level of biting is below the threshold for another predefined period of time T_{end} , d) if no events of teeth clenching and/or teeth grinding have been assigned for a third predefined period of time $T_{silence}$, then repeating steps a)-c), e) if events of teeth clenching and/or teeth grinding have been assigned for a third predefined period of time $T_{silence}$, then repeating only steps b)-c).