

Title (en)
QUANTITATIVE IN-SITU TEXTURE MEASUREMENT APPARATUS AND METHOD

Title (de)
QUANTITATIVE IN-SITU-TEXTURMESSVORRICHTUNG UND -VERFAHREN

Title (fr)
APPAREIL ET PROCÉDÉ DE MESURE QUANTITATIVE IN SITU DE TEXTURE

Publication
EP 3422872 A4 20191030 (EN)

Application
EP 17760967 A 20170304

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Abstract (en)
[origin: WO2017152154A1] A measurement apparatus and method for in-situ quantitative texture measurement of a food snack. The apparatus includes an acoustic capturing device and a data processing unit. The physical interaction in the mouth with saliva, when a human being eats/drinks a food snack, sends pressure waves that propagate through the ear bone and produce an acoustic signal. The acoustic capturing device records and forwards the signal to a data processing unit. The data processing unit further comprises a digital signal processing module that smoothens, transforms and filters the received acoustic signal. A statistical processing module further filters the acoustic signal from the data processing unit and generates a quantitative acoustic model for texture attributes such as hardness and fracturability. The quantitative model is correlated with a qualitative texture measurement from a descriptive expert panel. Another method includes a food snack fingerprinting using an in-situ quantitative food property measurement.

IPC 8 full level
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Citation (search report)
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