

Title (en)
APPARATUS AND METHOD FOR ULTRASOUND SCREENING

Title (de)
VORRICHTUNG UND VERFAHREN ZUM ULTRASCHALLSIEBEN

Title (fr)
DISPOSITIF ET PROCÉDÉ DESTINÉS AU TAMISAGE PAR ULTRA-SONS

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Application
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Abstract (en)

[origin: CA2883473A1] The invention relates to an apparatus for ultrasound screening (10, 20, 30, 40) with a screen frame (11, 21, 31, 41), with a screen fabric (12, 22, 32, 42) arranged in the screen frame (11, 21, 31, 41), with at least one ultrasound converter (15, 25, 35, 45) for producing ultrasonic vibrations, and with at least one means (13, 23, 33a, 33b, 43a, 43b) for introducing ultrasonic vibrations into the screen fabric (12, 22, 32, 42), wherein the means (13, 23, 33a, 33b, 43a, 43b) for introducing ultrasonic vibrations into the screen fabric (12, 22, 32, 42) is in sound-conducting connection with the ultrasound converter (15, 25, 35, 45), wherein at least one of the means (13, 23, 33a, 33b, 43a, 43b) for introducing ultrasonic vibrations into the screen fabric (12, 22, 32, 42) is movably arranged in such a way that the location of the screen fabric (12, 22, 32, 42) at which the introduction of the ultrasonic vibrations into the screen fabric (12, 22, 32, 42) is effected by the means (13, 23, 33a, 33b, 43a, 43b) for introducing the ultrasonic vibrations into the screen fabric (12, 22, 32, 42) can be varied by movement of the means (13, 23, 33a, 33b, 43a, 43b) for introducing the ultrasonic vibrations into the screen fabric (12, 22, 32, 42) relative to the screen fabric (12, 22, 32, 42), and to a method for ultrasound screening in which an apparatus (10, 20, 30, 40) with a screen frame (11, 21, 31, 41), with a screen fabric (12, 22, 32, 42) arranged in the screen frame (11, 21, 31, 41), with at least one ultrasound converter (15, 25, 35, 45a, 45b) for producing ultrasonic vibrations, and with at least one means (13, 23, 33a, 33b, 43a, 43b) for introducing ultrasonic vibrations into the screen fabric (12, 22, 32, 42), wherein the means (13, 23, 33a, 33b, 43a, 43b) for introducing ultrasonic vibrations into the screen fabric (12, 22, 32, 42) is in sound-conducting connection with the ultrasound converter (15, 25, 35, 45a, 45b), is arranged, in a screening operation, at least temporarily in a flow of the material to be screened and in which, in the course of the method, the screen fabric (12, 22, 32, 42) is excited, at least temporarily, by the means (13, 23, 33a, 33b, 43a, 43b) for introducing ultrasonic vibrations into the screen fabric (12, 22, 32, 42), wherein, during the method, the position of the means (13, 23, 33a, 33b, 43a, 43b) for introducing the ultrasonic vibrations into the screen fabric (12, 22, 32, 42) is varied relative to the screen fabric (12, 22, 32, 42) such that different points on the screen fabric (12, 22, 32, 42) are excited to undergo ultrasonic vibrations.

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US 5799799 A 19980901 - ALAMZAD HOSSEIN [US], et al

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