Patent claims

1. Device 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 excitation of ultrasound vibrations and
with at least one means (13, 23, 33a, 33b, 43a, 43b) of introducing ultrasonic vibrations into the screen fabric (12, 22, 32, 42), wherein the means (13, 23, 33a, 33b, 43a, 43b) of introducing ultrasonic vibrations into the screen fabric (12, 22, 32, 42) is in sound-conducting connection with the ultrasound converter (15, 25, 35, 45),
characterized in that
at least one of the means (13, 23, 33a, 33b, 43a, 43b) of introducing ultrasonic vibrations into the screen fabric (12, 22, 32, 42) is arranged movably relative to the screen fabric (12, 22, 32, 42) so that the place of the screen fabric (12, 22, 32, 42) at which the introducing of the ultrasound vibrations into the screen fabric (12, 22, 32, 42) by the means (13, 23, 33a, 33b, 43a, 43b) of introducing ultrasonic vibrations into the screen fabric (12, 22, 32, 42) occurs can be varied by movement of the means (13, 23, 33a, 33b, 43a, 43b) of introducing ultrasonic vibrations into the screen fabric (12, 22, 32, 42) relative to the screen fabric (12, 22, 32, 42).

2. Device for ultrasound screening (10, 20, 30, 40, 50) according to claim 1 ~~or the preamble of claim 1~~, characterized in that at least one of the means (13, 23, 33a, 33b, 43a, 43b, 53) of introducing ultrasonic vibrations into the screen fabric (12, 22, 32, 42, 52) is arranged on or

characterized in that

the position of the means (13, 23, 33a, 33b, 43a, 43b) of introducing ultrasonic vibrations into the screen fabric (12, 22, 32, 42) is varied relative to the screen fabric (12, 22, 32, 42) during the method, so that different places of the screen fabric (12, 22, 32, 42) are excited into ultrasound vibrations.

15. Method according to claim 14 ~~or the preamble of claim 14~~,

characterized in that pressure is exerted on the screen fabric (12, 22, 32, 42, 52) by at least one or more means (13, 23, 33a, 33b, 43a, 43b, 53) of introducing ultrasonic vibrations into the screen fabric (12, 22, 32, 42, 52) from above or from below.

16. Method according to claim 14 or 15,

characterized in that at least one or more means (13, 23, 33a, 33b, 43a, 43b) of introducing ultrasonic vibrations into the screen fabric (12, 22, 32, 42) from above or from below is brought into contact with the screen fabric (12, 22, 32, 42) and the means (13, 23, 33a, 33b, 43a, 43b) of introducing ultrasonic vibrations into the screen fabric (12, 22, 32, 42) is brought into contact with one or more ultrasound converters (15, 25, 35, 45a, 45b) directly or indirectly through sound feed conductors (14, 24, 34, 44a, 44b).

17. Method according to one of claims 14 to 16,

characterized in that the frequency of the ultrasound excitation is varied by running through one or more frequency ranges, especially the frequency range or ranges in which resonances of the device are situated, or in which maximum power uptake of the device occurs.

18. Method according to one of claims 14 to 17,