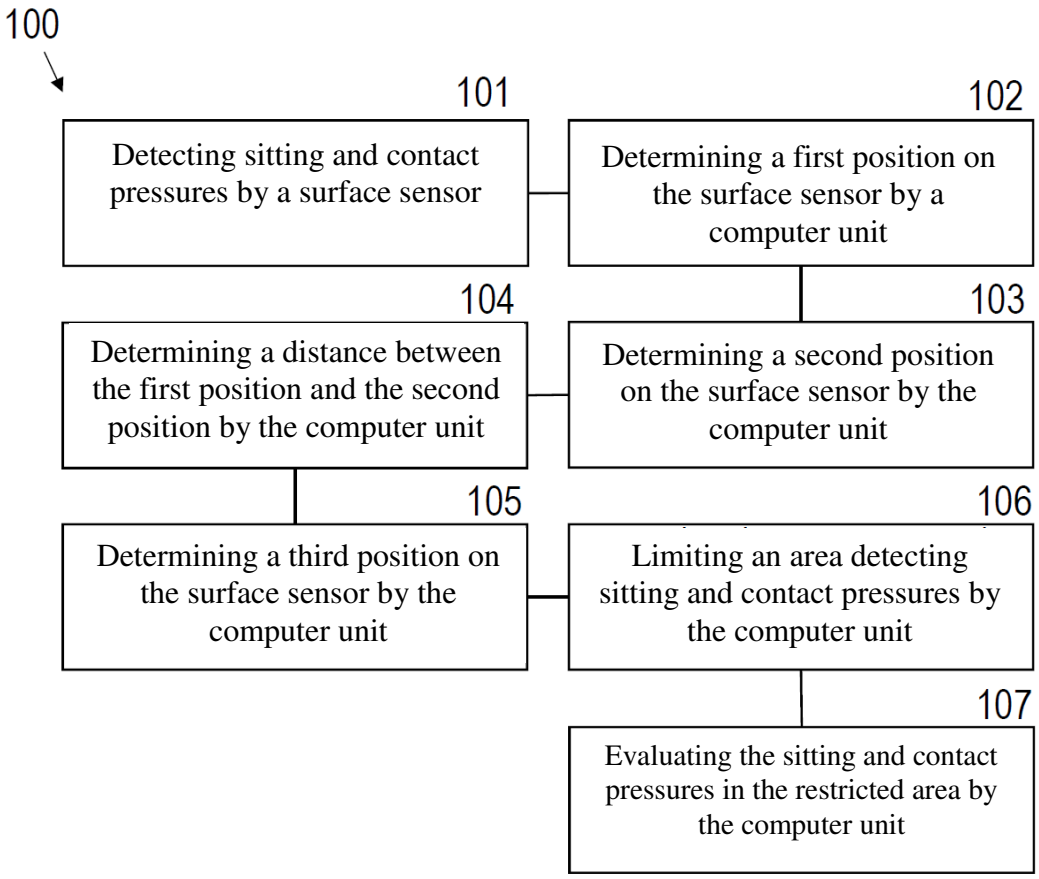
100
101
Detecting sitting and contact pressures by a surface sensor
102
Determining a first position on the surface sensor by a computer unit
103
Determining a second position on the surface sensor by the computer unit
104
Determining a distance between the first position and the second position by the computer unit
105
Determining a third position on the surface sensor by the computer unit
106
Limiting an area detecting sitting and contact pressures by the computer unit
107
Evaluating the sitting and contact pressures in the restricted area by the computer unit

Fig. 1

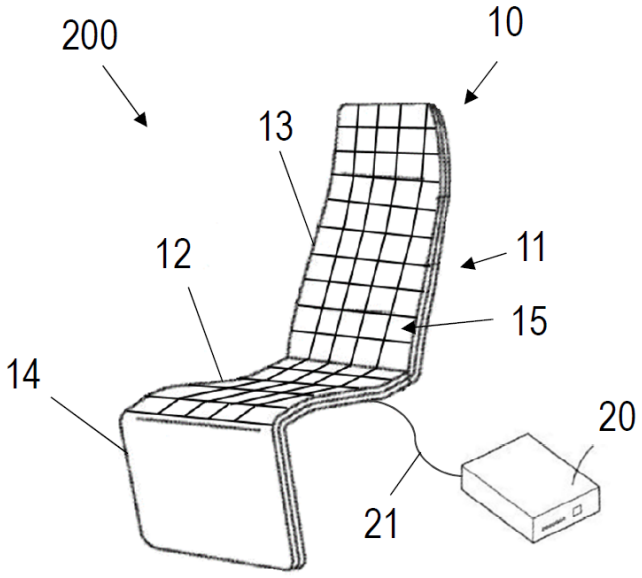
200
10
13
12
11
15
14
20
21

Fig. 2

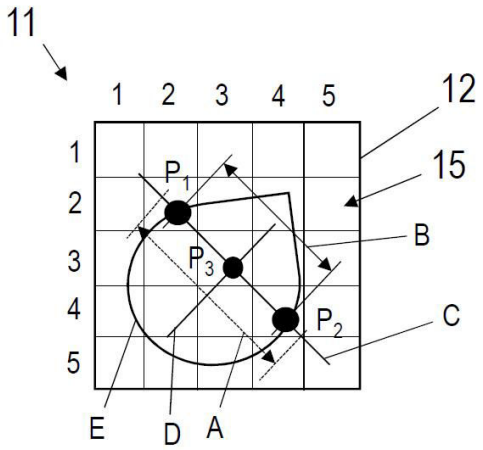
11
1 2 3 4 5
12
15
B
C
1
2
3
4
5
P1
P3
P2
E
D
A

Fig. 3

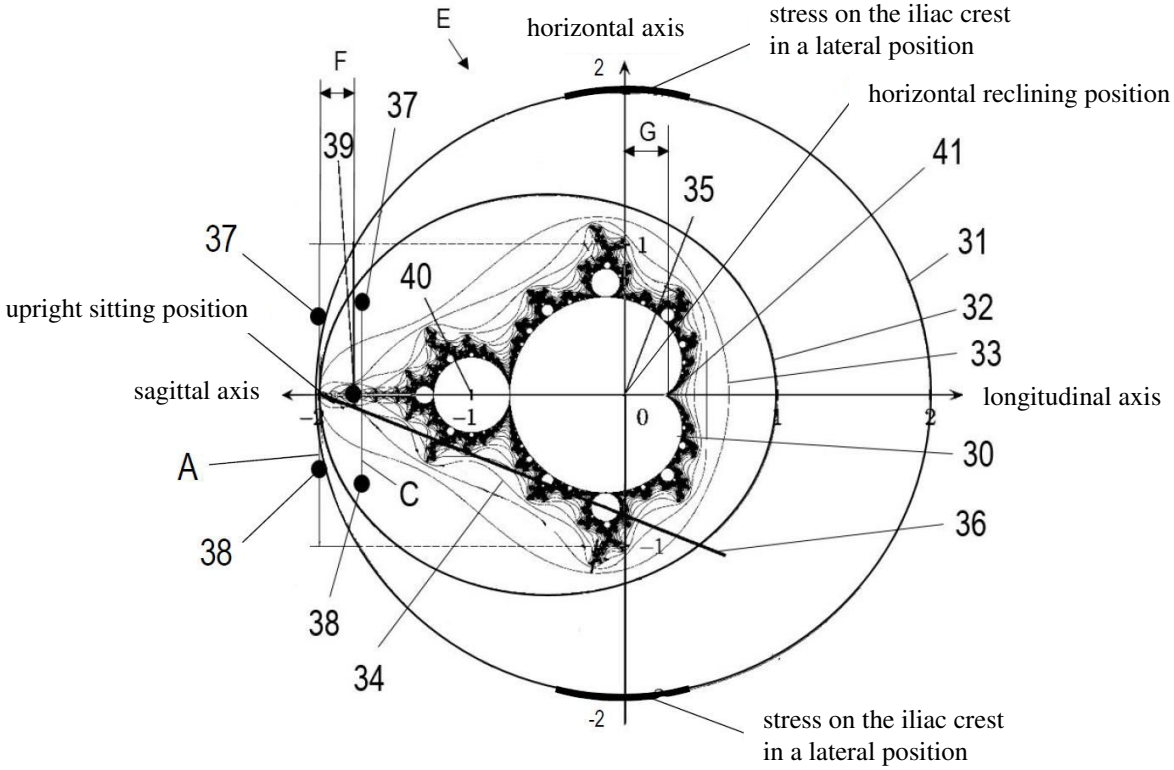
E
horizontal axis
stress on the iliac crest
in a lateral position
horizontal reclining position
F
37
39
G
41
35
37
31
40
upright sitting position
32
33
sagittal axis
longitudinal axis
30
A
C
36
38
38
34
stress on the iliac crest
in a lateral position

Fig. 4