

Claims

1. An apparatus (10) for transcutaneous treatment by gas, said apparatus (10)
5 comprising
a rigid-wall cabinet (20) and having an upper opening and at least one
openable panel, wherein a seat (25) is arranged inside the cabinet (20), and the
cabinet (20) comprises at least one gas concentration measurement unit (29a), and
the cabinet (20) further comprises a gas inlet (30) for feeding the treatment gas and
10 a gas outlet (31) for discharging the treatment gas,
a gas supply unit (40) coupled to the gas inlet (30) of the cabinet (20) via a pipe
(41) and through an interposed controllable valve (42), and
a gas tank (50) connected to the gas supply unit (40),
characterized in that
15 the apparatus further comprises
a ventilation unit (60) connected to the gas outlet (31) of the cabinet (20)
through an interposed controllable valve (63), said ventilation unit (60) being coupled
via a further pipe (62) to a space (70) hermetically separated from the room
containing the cabinet (20), and wherein said ventilation unit (60) is designed so that
20 it can discharge the entire volume of the treatment gas from the inner space of the
cabinet (20) within at most 5 seconds,
a control unit (80) for receiving the signals of the gas concentration
measurement unit (29a) and for controlling operation of the valves (42, 63) and said
ventilation unit (60) based on at least the signals of the gas concentration
25 measurement unit (29a).
2. The apparatus (10) according to claim 1, **characterized in** that the cabinet
(20) further comprises at least one sensor for indicating opening of an openable
panel, said sensor being coupled to the control unit (80).
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3. The apparatus (10) according to claim 1 or 2, **characterized in** that the
cabinet (20) further comprises a door (23) as an openable panel on its side,
preferably on its front side, wherein the at least one opening indication sensor is a
sensor (28) adapted to detect opening of the door (23).

4. The apparatus (10) according to claim 3, **characterized in** that the apparatus further comprises an openable or removable lid (24) on the upper side of the cabinet (20) as an additional openable panel, and a further sensor (27) for
5 indicating displacement of the lid (24).

5. The apparatus (10) according to any one of claims 1 to 4, **characterized in** that the apparatus further comprises a displacement sensor (26) built in a back rest of the seat (25) or in an inner side wall of the cabinet (20), said displacement sensor
10 (26) being in the form of a proximity sensor or a pressure sensor.

6. The apparatus (10) according to any one of claims 1 to 5, **characterized in** that the apparatus further comprises a sensor (100) for measuring the gas concentration around the cabinet (20) and for indicating that the surrounding gas
15 concentration reaches a preset concentration, said sensor (100) being coupled to the control unit (80).

7. The apparatus (10) according to any one of claims 1 to 6, **characterized in** that the apparatus further comprises at least one emergency stop switch (90)
20 coupled to the control unit (80).