Claims

1. Workspace wall (1) for placement on a desk (2) to reduce noise within a noise reduction area (7) in an operating orientation (11),
the workspace wall (1) comprising a main wall element (3), at least one wing panel (4),
optionally at least one sound detection element (21) for detecting a sound signal input (12), and
at least one sound generating device (22), preferably for active noise reduction, and/or a passive noise reduction element (20), characterized in that the at least one sound generating device (2) and/or the passive noise reduction element (20) is configured to reduce the level of noise within the noise reduction area (7).

2. Workspace wall (1) according to any one of the preceding claims, wherein the passive noise reduction element (20) is a noise reduction layer (201) which is arranged along at least a part of a surface of the workspace wall (1) or the entire surface of the workspace wall (1) and
preferably consists of or comprises polyethylene and/or has a thickness of 8 mm to 30 mm, in particular 12 mm to 20 mm, in particular preferably 19 mm.

3. Workspace wall (1) according to any one of the preceding claims, wherein the workspace wall (1) comprises a first sound detection element (211) for detecting a first sound signal input (121) and a second sound detection element (212) for detecting a second sound signal input (122), wherein the first sound detection element (211) and the second sound detection element (212) are arranged at different spatial positions and/or orientations.

4. Workspace wall (1) according to claim 3, wherein the workspace wall (1) comprises a sound signal optimization unit (24) which is configured to compare the first sound signal input (121) and the second sound signal input (122) and to calculate an optimized sound signal which includes one of the first sound signal input (121) and second sound signal input (122) from which the other of the first sound signal input (121) and second sound signal input (122) is at least partially subtracted.

5. Workspace wall (1) for placement on a desk (2) in an operating orientation (11) to reduce noise within a noise reduction area (7),
in particular according to any one of the preceding claims,
wherein the workspace wall (1) comprises at least one sound generating device (22) for active noise reduction,
at least one sound detection element (21) for detecting a sound signal input (12) and
at least one control unit (25) configured to compute a suppression sound signal based on the sound signal input (12),
wherein
the at least one sound generating device (22) is configured to generate a suppression sound (13) based on the suppression sound signal that results in at least partial destructive interference with sound within the noise reduction area (7).

6. Workspace wall (1) according to any one of the preceding claims, wherein the at least one sound generating device (22), in particular an array (301) of sound generating devices (22), is arranged on an edge (302, 306) of the workspace wall (1), in particular on an edge (302, 306) of the main wall element (3), the at least one wing panel (4) and/or the front panel (5).

7. Workspace wall (1) according to claim 6, wherein the at least one sound detection element (21) for detecting the sound signal input (12), in particular an array of sound detection elements (21) for detecting a plurality of sound signal inputs (12), preferably at least one sound detection element (21) per sound generating device (22),
is arranged on the edge (302, 306) or arranged less than 5 cm, in particular less than 10 cm, preferably less than 15 cm, from the edge (302, 306).

8. Workspace wall (1) according to claims 5 and 6 or 7, wherein the control unit (25) is adapted to compute the suppression sound signal via the sound signal input (12),
based on at least one of:

- a closed feedback loop, wherein the control unit (25) is adapted to continuously adjust the suppression sound signal based on sound signal inputs (12) influenced by temporally preceding generated suppression sounds (13) and

- an analogue feedback, wherein the sound signal input (12) is inverted and amplified to compute the suppression sound signal.

9. Workspace wall (1) for placement on a desk (2) in an operating orientation (11) to reduce noise within a noise reduction area (7),
in particular according to any one of the preceding claims, wherein the workspace wall (1) comprises

– at least two sound generating devices (221, 222) for active noise reduction,

– at least two sound detection elements (21) for detecting at least two sound signal inputs (121, 122) at at least two different spatial positions and/or orientations, and

- at least one control unit (25) configured to
  - distinguish between an internal sound signal generated by sound within the noise reduction area (7) and an external sound signal generated by sound outside the noise reduction area (7) by comparison of the at least two sound signal inputs (121, 122) and
  - generate at least one suppression sound signal, preferably two different suppression sound signals, based on the external sound signal,

wherein the at least two sound generating devices (221, 222) are configured to generate at least one suppression sound (13), preferably at least two different suppression sounds, based on the at least one suppression sound signal that results in at least partial destructive interference within the noise reduction area (7) with sound generated outside the noise reduction area (7).

10. Air purifying device (50) comprising
  - a housing (51),
  - at least one purifying unit (52) arranged inside the housing (51),
  - at least one air inlet (53),
  - at least one air outlet (54),
  - at least one air circulation unit, in particular a fan (55), for directing air through the air inlet (53) into the housing (51), then through the at least one purifying unit (52) and through the air outlet (54) out of the housing (51),

characterized in that
in an operating orientation of the device (50),
  - at least one air inlet (53) is arranged at the top section (56) of the device (50) and/or at least one air in-

let (53) is arranged at the bottom section (57) of the device (50) and

- at least on air outlet (53) is arranged at a side (58) of the device (50).

11. Air purifying device (50) according to claim 10, wherein the at least one purifying unit (52) is selected from at least one of the group consisting of

- a dust filter (521),
- a HEPA filter (522),
- an active carbon filter (523),
- an electrostatic filter and
- a UV purifier (525), in a particular UV-C purifier.

12. Air purifying device (50) according to any one of the claims 10 and 11, wherein the device (50) further comprises at least one sensor (59) for determining at least one property of the air flowing in through the air inlet (53) and/or flowing out through the air outlet (54).

13. Air purifying device (50) according to claim 12, wherein the device (50) further comprises a device control unit (60) for controlling the operation of the at least one air circulation unit and/or at least one of the at least one purifying unit (52) on the basis of the at least one property determined from the at least one sensor (59).

14. Desktop system (70) comprising

- an air purifying device (50), in particular according to any one of the claims 10 to 13, comprising a housing (51), at least one purifying unit (52) arranged inside the housing (51), at least one air inlet (53), at least one air outlet (54), at least one

air circulation unit, in particular a fan (55), for directing air through the air inlet (53) into the housing (51), then through the at least one purifying unit and through the air outlet (54) out of the housing (51),
wherein in an operating orientation of the device (50), at least one air inlet (53) is preferably arranged at the top section (56) of the device (50) and/or at least one air inlet (53) is preferably arranged at the bottom section (57) of the device (50) and
at least one air outlet (54) is preferably arranged at a side of the device (50)
and

– a workspace wall (1), in particular according to any one of the claims 1 to 6, for placement on a desk (2) to reduce noise within a noise reduction area (7) in an operating orientation (11),
comprising a main wall element (3), at least one wing panel (4) and
at least one sound generating device (22), preferably for active noise reduction, and/or a passive noise reduction element (20), wherein
the at least one sound generating device and/or the passive noise reduction element (20) is configured to reduce the level of noise within the noise reduction area (7).