Claims

1. Combination of an extraction device for a worktop and a pan (5),

the extraction device comprising a worktop having at least one pan support (2) for supporting the pan (5), wherein the worktop further comprises an extraction opening (3) which is provided in a main surface of the worktop and arranged close to the at least one pan support (2), and an extraction motor (10) in communication with the extraction opening (3) via an associated extraction duct between the extraction opening (3) and the extraction motor (10) and arranged to provide an area of low pressure in the extraction opening (3) for extracting cooking fumes,

further comprising an extraction area displacement element (8; 14; 15; 16; 22) which, when the pan (5) is placed on the pan support (2) during operation, is configured to move the area of low pressure to an area near a rim (7) of the pan (5) or configured to direct cooking fumes from the rim (7) of the pan (5) towards the area of low pressure, wherein the extraction area displacement element (8; 14; 15; 16; 22) is an integral part of the pan (5).

2. The combination according to Claim 1, wherein the extraction area displacement element (8; 14; 15; 16; 22) comprises a duct like assembly in communication with the extraction opening (3).

3. The combination according to Claim 1, wherein the extraction area displacement element (8; 14; 15; 16; 22) comprises a redirection body arranged to redirect cooking fumes from the rim (7) of the pan (5) towards the extraction opening (3).

4. The combination according to any one of Claims 1-3, wherein the extraction device for a worktop further comprises, for each of the at least one pan support (2):
a pressure sensor which is placed in the associated extraction duct between the extraction opening (3) and the extraction motor (10), and
a control valve that is configured to set a fluid flow in dependence on a signal from the pressure sensor.

5. The combination according to any one of claims 1-4, wherein the worktop comprises two or more pan supports (2), and a single extraction opening (3) is provided in the surface of the worktop symmetrically in between the two or more pan supports (2).

6. The combination according to any one of claims 1-5, wherein the pan (5) comprises the pan rim (7) connected to an inside of the pan (5), wherein the pan rim (7) is provided with one or more extraction openings, and the pan rim (7) is part of the extraction area displacement element (8; 14; 15; 16; 22).

7. The combination according to Claim 6, wherein the one or more extraction openings are directed towards an inside of the pan (5).

8. The combination according to Claim 6 or 7, wherein the one or more extraction openings are directed towards an area above the pan rim of the pan (5).

9. The combination according to any one of Claims 6-8, wherein the extraction area displacement element further comprises an outer pan (8) which is connected at a top side to the pan rim (7).

10. The combination according to any one of Claims 6-8, wherein the extraction area displacement element (8; 14; 15; 16; 22) further comprises an external pan rim (14) directed towards a base of the pan (5), which external pan rim (14) is connected at a top side to the pan rim (7).

11. The combination according to Claim 10, wherein the external pan rim (14) extends in a height direction of the pan (5) over at least a quarter of a height of the pan (5).

12. The combination according to any one of Claims 6-8, wherein the extraction area displacement element (8; 14; 15; 16; 22) further comprises at least one extraction duct (15), which is arranged along part of the periphery of the pan.

13. The combination according to any one of Claims 6-8, wherein the extraction area displacement element (8; 14; 15; 16; 22) comprises a pan rim extension (16) which is directed radially outwards.

14. The combination according to any one of claims 1-5, wherein the extraction area displacement element (8; 14; 15; 16; 22) is formed by a downward extending rim (21) of a lid (12) of the pan (5) and a lid raising part (22),
wherein the lid raising part (22) spans a part of an inner circumference of the lid (12) and is provided with at least one aperture (23) near the downward extending rim (21).

15. The combination according to claim 14, wherein an inward directed member (24) of the lid raising part (22) is positioned at a predetermined vertical distance from the bottom of the lid (12).

16. The combination according to claim 14 or 15, wherein the lid raising part (22) is a moulded plastic element.

17. The combination according to any one of claims 1-5, wherein the rim (7) of the pan (5) is provided with a recess (7a) over part of the circumference of the rim (7).

18. The combination according to claim 17, wherein the extraction area displacement element (8; 14; 15; 16; 22) further comprises at least one extraction duct (15), which is arranged along part of the periphery of the pan (5).

19. The combination according to Claim 17, wherein the extraction area displacement element (8; 14; 15; 16; 22) further comprises an outer pan (8) which is connected at a top side to the rim (7).