Claims

1. A group (100) for wall-mounting electric modules (200) comprising:
   - a support frame (1) which is configured so as to be able to be fixed to a wall (P) and which comprises a peripheral structure (11) which is configured so as to abut the wall (P) and which delimits a through-opening (10) which is suitable for receiving at least one electric module (200), the peripheral structure (11) having a substantially rectangular form so as to define short sides (12) and long sides (13) the through opening (10) being defined by an edge (10A);
   - a covering plate (2) which has a substantially planar extent and which is configured so as to cover the peripheral structure (11) when it is superimposed, with respect to an engagement direction (N) perpendicular to the wall (P), on the support frame (1), the covering plate (2) comprising an operating surface (21) which is intended to be in view when the group (100) is wall-mounted;
   - an engagement device (3) which is configured so as to fix in a removable manner the covering plate (2) to the support frame (1), the engagement device (3) including a plurality of fixing openings (31) and corresponding extensions (32), the fixing openings (31) being configured so as to allow the passage of the corresponding extensions (32) and defining a corresponding abutment element (33), on which a respective extension (32) engages when the covering plate (2) is fixed to the support frame (1), wherein the fixing openings (31) are formed on the support frame (1) and are provided in a position spaced apart from the edge (10A) and the extensions (32) are formed on the covering plate (2);
   - wherein each of the extensions (32) and the abutment elements (33) comprises a respective main inclined surface (32A, 33A) which has an inclined extent with respect to the engagement direction (N), and wherein each of the extensions (32) and/or the abutment elements (33) comprise an auxiliary inclined surface (32B, 33B) which has an inclined extent with respect to the engagement direction (N) and in the opposite direction to the main inclined surface (32A, 33A), the main inclined surface (32A) of the extensions (32) being configured so as to abut the main inclined

surface (33A) of the abutment elements (33) following a movement of the covering plate (2) in a fixing direction or removal direction to/from the support frame (1) and the auxiliary inclined surface (32B, 33B) of the extensions (32)/abutment elements (33) being configured so as to abut the abutment elements (33)/extensions (32) following a movement of the covering plate (2) in a fixing direction or removal direction to/from the support frame (1), and wherein the extensions (32) are resiliently deformable and are configured so as to become resiliently deformed following the abutment of the main inclined surfaces (32A, 33A) and/or the auxiliary inclined surfaces (32B, 33B),

- wherein the extensions (32) are constructed in pairs and comprise a first extension (321) and a second extension (322) which face each other, the first extension (321) and the second extension (322) facing each other and being configured so as to abut a common abutment element (33), the support frame (1) comprising respective openings (31) which are configured to receive the first extension (321) and the second extension (322) which are separated from each other by the abutment element (33), respectively.

2. A group (100) for wall-mounting electric modules (200) according to claim 1, wherein the extensions extend away from a development plane of the covering plate (2) in a direction opposite to the operating surface (21).

3. A group (100) for wall-mounting electric modules (200) according to claim 2, wherein the covering plate (2) comprises a through-opening (20), through which access is granted to the electric modules (200), the through-opening (20) being defined by an edge (20A), the extensions being spaced apart from the edge (20A).

4. A group (100) for wall-mounting electric modules (200) according to any one of the preceding claims, wherein the auxiliary inclined surface (32B) of the extensions (32) comprises an engagement tooth and preferably a plurality of indentations (34).

5. A group (100) for wall-mounting electric modules (200) according to claim 4, wherein the main inclined surfaces (32A) of the extensions (32) are configured so as to abut the main inclined surfaces (33A) of the common abutment element (33) so as to urge the first extension (321) and the second extension (322) away from each other following a movement of the covering plate (2) in a fixing direction (F) with respect to the support frame (1).

6. A group (100) for wall-mounting electric modules (200) according to any one of the preceding claims, wherein the auxiliary inclined surfaces (32B) of the extensions (32) are configured so as to abut the auxiliary inclined surfaces (33B) of the common abutment element (33) so as to urge the first extension (321) and the second extension (322) away from each other following a movement of the covering plate (2) in a removal direction (F) from the support frame (1).

7. A group (100) for wall-mounting electric modules (200) according to any one of the preceding claims, wherein the main inclined surface (32A) of the first extension (321) faces the corresponding main inclined surface of the second extension (322) and/or the auxiliary inclined surface (32B) of the first extension (321) faces the corresponding auxiliary inclined surface of the second extension (322).

8. A group (100) for wall-mounting electric modules (200) according to any one of the preceding claims, wherein the covering plate (2) comprises peripheral guide elements (22) which are configured so as to surround an external edge (14) of the support frame (1).

9. A group (100) for wall-mounting electric modules (200) according to any one of the preceding claims, comprising internal guide elements (23) which extend away on the covering plate (2) in a direction opposite to the visible surface (21).

10. A group (100) for wall-mounting electric modules (200) according to claim 9, wherein the internal guide elements (23) are configured so as to be connected to respective recesses (15) which are formed on the support frame (1) and which are formed at the perimeter of the through-opening (10).

11. A group (100) for wall-mounting electric modules (200) according to any one of the preceding claims, wherein the fixing openings (31) are through-openings.

12. A covering plate (2) for a group (100) for wall-mounting electric modules (200), having a substantially planar extent and being configured so as to cover the peripheral structure (11) when it is superimposed, with respect to an engagement direction (N) perpendicular to the wall (P), on the support frame (1), the covering plate (2) comprising an operating surface (21) which is intended to be in view during use, and a plurality of extensions (32) which extend away from a development plane of the covering plate (2) in a direction opposite to the operating surface (21), the extensions (32) being included in the engagement device (3) of a group (100) for wall-mounting electric modules (200) according to any one of claims 1 to 11.

13. A support frame (1) for a group (100) for wall-mounting electric modules (200), comprising a peripheral structure (11) which is configured so as to abut a wall (P) and which delimits a through-opening (10) which is suitable for receiving at least one electric module (200), the peripheral structure (11) having a substantially rectangular form so as to define short sides (12) and long sides (13), wherein the support frame (1) includes at least four fixing openings (31) which are defined in the support frame (1) at the short sides (12) or at an intersection zone between the short sides (12) and the long sides (13), and at least four corresponding abutment elements (33), the openings (31) and the abutment elements (33) being included in the engagement device (3) of a group (100) for wall-mounting electric modules (200) according to any one of claims 1 to 11.