Claims

1. Robot fixture (100) for securing a robot manipulator to a tabletop, having a base mounting unit (1) having a robot manipulator interface (3) for securing the robot manipulator on the base mounting unit (1), wherein the base mounting unit (1) introduces, over a surface, a weight force of the robot manipulator to an upper face of the tabletop, wherein a first end of a clamping arm (5) is arranged on an end face of the base mounting unit (1) and the clamping arm (5) has an arm portion leading away from the base mounting unit (1) and ~~an~~ the arm portion extending parallel to the base mounting unit (1), so that when mounting the base mounting unit (1) on the tabletop, the arm portion extending parallel to the base mounting unit (1) extends under the tabletop, and wherein a clamping slide (7), which is movable relative to the clamping arm (5) in the direction of the base mounting unit (1), is arranged on a second end of the clamping arm (5), and, on an end of the clamping slide (7) facing away from the base mounting unit (1), a support cushion (9) is arranged on the clamping slide (7), wherein the support cushion (9) is mounted about at least one axis in a torque-free manner relative to the clamping slide (7) and the support cushion (9) presses the robot fixture (100) against a lower face of the tabletop~~.~~,

~~2. The robot fixture (100) according to claim 1,~~
wherein exactly two clamping arms (5) are arranged on the base mounting unit (1).

~~3.~~2. The robot fixture (100) according to ~~any of the preceding~~ claim~~s~~1,
wherein the clamping slide (7) is a threaded spindle, the threaded spindle being guided through an internal thread arranged in the clamping arm (5).

~~4.~~3. The robot fixture (100) according to claim ~~3~~2,
wherein the threaded spindle (7) has a tool interface (11) on the side facing away from the support cushion (9) for attaching a tool for rotating the threaded spindle.

~~5.~~4. The robot fixture (100) according to claim ~~4~~3,
wherein the tool interface (11) has a hexagon socket profile.

~~6.~~5. The robot fixture (100) according to any of the preceding claims,
wherein the clamping slide (7) is mounted rotatably relative to the clamping arm (5).

~~7. The robot fixture (100) according to claim 6,~~

~~wherein the clamping slide (7) may be rotated via locking positions.~~

~~8.~~6. The robot fixture (100) according to any of the preceding claims,
wherein the support cushion (9) and the clamping slide (7) are connected via a ball joint (13).

~~9.~~7. A method for mounting a robot manipulator on a tabletop by means of a robot fixture (100), wherein the robot fixture (100) has a base mounting unit (1) having a robot manipulator interface (3) and wherein the base mounting unit (1) introduces, over a surface, the weight of the robot manipulator to an upper face of the tabletop, wherein a first end of a clamping arm (5) is arranged on an end face of the base mounting unit (1) and the clamping arm (5) has an arm portion leading away from the base mounting unit (1) and ~~an~~ the arm portion extending parallel to the base mounting unit (1), and wherein a clamping slide (7), which is movable relative to the clamping arm (5) in the direction of the base mounting unit (1), is arranged on a second end of the clamping arm (5), and, on an end of the clamping slide (7) facing the base mounting unit (1), a support cushion (9) is arranged about at least one axis in a torque-free manner on the clamping slide (7), including the steps:
- Arranging (S1) the base mounting unit (1) on the upper face of the tabletop while at the same time guiding the arm portion extending parallel to the base mounting unit (1) under the tabletop,
- Moving (S2) the clamping slide (7) in the direction of the base mounting unit (1) to press the support cushion (9) against a lower face of the tabletop, and

Securing (S3) the robot manipulator to the robot manipulator interface (3) of the base mounting unit (1),
wherein exactly two clamping arms (5) are arranged on the base mounting unit (1).

~~10.~~8. The method according to claim ~~7~~9,
wherein the clamping slide (7) is a threaded spindle and the threaded spindle is guided through an internal thread arranged in the clamping arm (5), wherein the threaded spindle has a tool interface (11) on the side facing away from the support cushion (9) for attaching a tool to rotate the threaded spindle, and
the moving (S2) of the clamping slide (7) in the direction of the base mounting unit (1) to press the support cushion (9) against the lower face of the tabletop takes place by turning the clamping slide (7) by means of a torque wrench up to a predetermined maximum torque.