COMPUTER TABLE FOR A FURNITURE

Field of the invention

The present invention relates to a fixing device for table top, a profile being an integral part of the fixing device as well as a table top utilizing the fixing device. The fixing device can be utilized for all types of tables having free-hanging table tops, and especially for computer tables.

Background of the invention

It is prior known tables for computer screens, raising the screen up from the desk. The screen is placed on a small plate. The plate is mounted on a rotating arm, which again is standing on a clamp fastener gripping round the rim of the desk.

In the prior known solutions, the table top is fixed to a rotating joint or an arm by means of a small bracket which again is fixed to the desk with bolts, rivets or similar. This fixing point is a weak point mechanically speaking, requiring space and is therefore not allowing a slim mounting of the plate, and is not much satisfactory from an aesthetic point of view.

Thus, there is a demand of an improved fixing device which being more solid and stable in use, simultaneously providing an improved visual expression than existing solutions.

Summary of the invention

EmbodimentsThe object of the present invention seekis to provide such a fixing device, a profile for embedding into a table top as well as a table top utilizing such a fixing device. The extent of the invention is evident from the following patent claims.

According to an aspect of the present invention, there is provided a table top comprising a profile installed into material of the table top, c h a r a c t e r i z e d i n that the profile comprises a through bore, wherein the table top additionally comprises a shaft arranged to be directed through the bore, a rotatable fixing means terminating the shaft at one end, as well as means locking the shaft to the table top, the profile further comprising a number of longitudinal grooves in and along the bore, said means for locking the shaft to the table top comprising locking lugs arranged on the rotatable fixing means and being arranged to engage into the grooves and locking the profile and the table top against rotation round the shaft.

There is also disclosedAccording to a first aspect, the invention comprises a fixing device for table top comprising a profile arranged to be fixed in the table top, wherein the profile comprises a through bore, a shaft arranged to be directed through the bore, a sleeve terminating the shaft at one end as well as a fixing means terminating the shaft at the outer end.

There is also disclosed~~According to a second aspect, the invention comprises~~ a profile for fixing table top comprising a flat base having a curved or double curved upper surface and a through channel provided with a circular bore having a number of longitudinal grooves.

There is also disclosed~~According to a third aspect, the invention comprises~~ a table top as with a fixing device as described above~~according to said first aspect~~.

Brief description of the figures

The invention is now described in more detail by reference to the attached drawings, wherein:

Fig. 1 is a drawing of a computer table.

Fig. 2 is showing schematically a table top according to the invention, **a** seen from above, **b** schematically from in front, **c** in cross section, and **d** a detail from the section **c**, respectively.

Fig. 3 is showing single components being an integral part of the fixing device, **a** exploded in perspective, **b** composed in longitudinal sections from the side, **c** seen from above, and **d** in cross section, respectively.

Detailed description

Computer table of the type described herein comprises a plate that shall hold the computer, more specifically a portable computer, often named laptop. The computer table comprises an arm holding the table top itself, and which again is fixed on a furniture. It must be possible to rotate said arm out and in of the working area of the user, thereby ensuring that it simply can be placed in correct working position and be turned away when it is not in use.

Fig. 1 shows a computer table according to the invention comprising a table top 1. The table top is fixed to a rotatable joint 2 which again is fixed to an upper arm 3. The upper arm is fixed to a rotating telescopic arm or pillar 4, which again is fixed to a lower arm 5 and a clamp fastener 6. The clamp fastener is estimated to be able to grip round an arm rest, or another suitable component, of a chair, such as a recliner.

The table top 1 comprises a through profile 7 (Fig. 2) being installed into the table top. The profile is preferably manufactured from metal, such as aluminum, or alternatively from a synthetic material such as fibre reinforced plastic composite. The profile can be installed into the table top by being cast-in, or by the plate consisting of several layers

Claims

1. Table top ~~(1)~~ comprising a profile ~~(7)~~ installed into material of the table top, c h a r a c t e r i z e d i n that the profile comprises a through bore ~~(10)~~, wherein the table top additionally comprises a shaft ~~(15)~~ arranged to be directed through the bore ~~(10)~~, a rotatable fixing means ~~(2, 18)~~ terminating the shaft at one end, as well as means locking the shaft to the table top, the profile ~~(7)~~ further comprising a number of longitudinal grooves ~~(11, 12)~~ in and along the bore ~~(10)~~, said means for locking the shaft to the table top comprising locking lugs ~~(19, 20)~~ arranged on the rotatable fixing means and being arranged to engage into the grooves ~~(11, 12)~~ and locking the profile ~~(7)~~ and the table top ~~(1)~~ against rotation round the shaft ~~(15)~~.

2. Table top according to claim 1, wherein the profile has a flat base ~~(8)~~ and a curved or double curved upper surface ~~(9)~~, and wherein the table top is formed by several layers being laminated round the profile.

3. Table top according to claim 1, wherein the profile is made from a fibre reinforced composite material or metal.

4. Table top according to claim 1, wherein the profile is made from aluminum.