Telescopic arm for a PC table

Technical field

The present invention regards a rotatable telescopic column. The column has a general application, but is particularly suitable for use in furniture, and more specifically in the PC table.

Background

The applicant markets a PC table which includes a table top that can carry a computer, more specifically a laptop computer, often called a laptop. The PC table includes an arm that carries the table top itself. The arm is attached to a column that has adjustable height and is rotatable, and which in turn is attached to a piece of furniture. The arm must be swung in and out of the workspace of the user, so that it easily can be placed in the correct working position and can be swung away when not in use. The height adjustable column includes a clamp coupling that locks the column in the desired height and with an appropriate friction so that the arm can be rotated. The prior art column has a weakness in that the friction does not remain constant during use. Wear occurs in the clamp coupling, and it is easily loosened when the joint pivots back and forth.

It is therefore a need for an improved telescopic bar that is more stable in use, where the friction can be easily adjusted, respectively, that can be locked, and where the settings are retained over time.

Summary

Embodiments of t~~T~~he present invention ~~is~~ intend~~ed~~ to produce such a column. ~~This is achieved with a telescopic column according to the present invention. The scope of the invention is shown in the following patent claims. Specifically, it is arranged~~

According to a first aspect of the present invention, there is provided a rotata~~ble~~ing telescopic column, comprising: ~~that includes~~ an outer sleeve, a telescopic sleeve ~~which is~~ located inside the outer sleeve, a lock~~ing~~able ~~elip~~clamp mechanism that is attached to the outer sleeve and grips ~~that grabs around~~ the telescopic sleeve and is designed to lock the telescopic sleeve to the outer sleeve when the telescopic sleeve is in a selected position relative to the outer sleeve ~~and~~, a shaft located inside the telescopic sleeve and which is rotatable in relation to this ~~.~~, characterized in that the outer sleeve has a number of internal cams, said telescopic sleeve has a corresponding number of outer slots, as the cams in the outer sleeve are designed to intervene in the slots in the telescopic sleeve and thereby prevent the telescopic sleeve from turning relative to the outer sleeve.

According to a second aspect of the present invention, there is provided a PC table comprising a table top and a fastening mechanism such as a clamp attachment, having a

rotatable telescopic column according to the first aspect is arranged between the table top and the fastening mechanism.

Preferably,~~It is thereby achieved that~~ the functions for length adjustment and turning of the column are separated and do not affect each other. The column may be~~is therefore~~ more stable in use. The clamping mechanism may~~will~~ not loosen during use, while the turning feature may becomes very strong because of the continuous shaft.