RECLINING OFFICE CHAIR

Inventor: Jong Gyu AN, Busan (KR)

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ABSTRACT

The present invention relates to a reclining office chair. The footstool is hidden in the seat frame when it is used as an office chair. The space for the footstool is secured by placing the mechanisms that help swiveling of the backrest in the guide frame. The mechanisms are the gas cylinder and the operation part. When the user wants to use the present invention as a recliner, the backrest can be reclined up to 160 degrees by push of a button. The user can choose any angle of the backrest. Moreover, when the user pulls the footstool out, the locking mechanism of the footstool panel is unlocked automatically. The gas cylinders under the footstool panel lift up the footrest panel, giving the user a comfortable angle for the legs. The present invention is an office recliner, an office chair with a combined function of a recliner.
RECLINING OFFICE CHAIR

CROSS-REFERENCE TO RELATED APPLICATION

[0001] This application claims the benefit of Korean Application No. 10-2011-0009279, filed on Oct. 19, 2011, with the Korean Intellectual Property Office, the disclosure of which is incorporated herein by reference.

BACKGROUND OF THE INVENTION

[0002] The present invention relates to an office recliner, an office chair having the function of a recliner. The gas cylinder for adjusting the backrest's angle is placed in the chair's central frame. Such structure secures a space for the footstool, which is necessary to take a rest, to be inserted in the seat part. The backrest can recline backward up to 160 degrees. The footstool, which is necessary when taking a rest, can be pulled out of the seat part. When the footstool is pulled out, the unlocking mechanism of the footstool panel is automatically unlocked. As the footstool panel is unlocked, the gas cylinders under the footstool panel lift up the footrest, providing the user a comfortable angle for his or her legs.

[0003] Generally, combining an office chair with the function of a recliner makes the chair very big, or the user may require a separate footstool which takes up extra space in the room. Such composition makes it very hard for the user to use such a chair in a small office or a small room.

SUMMARY OF THE INVENTION

[0004] The present invention, which is to solve said problems, relates to an office recliner. The user can use the present invention as a normal office chair under normal circumstances. The footstool is hidden inside the seat part. Since the footstool is in the seat part, the user does not need to rush to get a footstool. Since the footstool is inside, the user can use the present invention as a normal chair without disturbing the office environment. Since the footstool's place is in the seat part, the user can save the space for an extra footstool.

[0005] As stated above, the present invention achieves the following effects: first, the backrest angle is undetermined and the user can set the angle to any angle of the user's choice; and second, with one simple action of pulling, the footstool is pulled out and the footstool panel is lifted up. The present invention, an office recliner, can be turned into a recliner from an office chair with said two simple actions. While working, the user can sit comfortably on the office chair, the present invention in the form of an office chair. When the user wishes to rest, he or she can enjoy the second form of present invention, the recliner, with two simple actions.

[0006] The present invention, the office recliner, relates to an office chair with a combined function of a recliner. Normally, the present invention is used as an office chair. When the user wants to rest, the user, with simple operations, can turn the present invention into a recliner. The backrest reclines back up to 160 degrees with a push of a button. The footstool is hidden in the seat frame when the present invention is used as an office chair. It can be pulled out easily by its sliding system. The said system allows the user to use the present invention normally as an office chair and as a recliner when needed. And when the user requires a full rest, the user does not have to stand up to get a footstool to stretch his or her legs, since the footstool is already there. All the user is required to do is to pull out the footstool and push a button to recline.

[0007] When the user wants to take a rest, all the user needs to do is just push a button and recline back. When the user wants a footstool, the user is just required to pull out the footstool. A resting environment is set by just two actions. When the user wants to resume working, the user is required to do just the reverse of those two actions.

BRIEF DESCRIPTION OF THE DRAWINGS

[0008] The above and/or other aspects and advantages of the present invention will become apparent and more readily appreciated from the following description of the embodiments, taken in conjunction with the accompanying drawings of which:

[0009] FIG. 1 shows the function of present invention as an office recliner and an office chair three dimensionally;
[0010] FIG. 2 shows the major composition of the present invention in a disassembled format;
[0011] FIG. 3 shows the auto-unlocking mechanism of the footstool's panel part; and
[0012] FIG. 4 shows the operation of footstool part after the locking mechanism is unlocked.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0013] Present invention of an office recliner comprises the seat part 10, the backrest part 20, and the footstool part 30 which is hidden under the seat part 10 and can be pulled out when needed.

[0014] The backrest angle adjustment mechanism is composed of the button part 22 which operates the gas cylinder 25, the guide part 11 which regulates the range of backrest's recline angle, the armrest part 23 which is to place the arms when resting, and the spring 24 and gas cylinder 25 which restore the backrest. The seat height adjustment mechanism is composed of the button part 11, which operates the seat, and the gas cylinder part 12 which determines the height. The footstool mechanism, which lets the user place his or her legs, is composed of the slide rail 35 which lets the stool be pushed in and out, the panel part 32 which anchors the rail, the stool part 30 which serves as the place to put user's legs, and the gas cylinder 31 which lifts up the stool. The unlocking mechanism 40 which operates the gas cylinders 31 to lift up the stool is located on the seat part.

[0015] The drawings explain the said compositions.

[0016] FIG. 1 describes the overall function of the office recliner which the present invention is trying to achieve. As depicted, the present invention, an office recliner 100, is composed of the backrest 20 which lets the user to lean on, the seat 10 which anchors the backrest and lets the user to sit on, the frame part 50 which supports the backrest and the seat and contains the operation parts, and the chair base 60 which supports all of the said parts.

[0017] The said backrest is operated by pressing the operation button 22. As the button 22 is pressed, the gas cylinder 25 is operated, letting the user take any angle he/she wants. The guide frame 41 lets the backrest to recline up to 160 degrees. Detailed composition of angle adjustment is depicted in FIG. 2.
As depicted in FIG. 2, the present invention is used as an office recliner. The footstool is inserted in the frame of seat part. Therefore, the present invention is used as an office chair in a normal situation. When the present invention is used for resting, the user presses the angle adjustment button 22 and reclines the backrest 20 up to 160 degrees. The footstool can be pulled out. The slide rail 35 guides the footstool as it is pulled out. As the footstool can be pulled out, the gas cylinders 31 under the footstool panel lifts up the footstool panel, forming the recliner for resting.

While the present invention has been particularly shown and described with reference to exemplary embodiments thereof, it will be understood by those skilled in the arts that various changes in form and details may be made therein without departing from the spirit and scope of the present invention. The exemplary embodiments are provided for the purpose of illustrating the invention, not in a limitative sense. Thus, it is intended that the present invention covers the modifications and variations of this invention provided as they come within the scope of the appended claims and their equivalents.

What is claimed is:
1. A reclining office chair comprising:
   a seat part;
   a backrest part; and
   a footstool part which is hidden under the seat part and adapted to be pulled out;
   wherein an automatic unlocking mechanism of a footstool panel is operated for the footstool to be pulled out and gas cylinders under the footstool panel lift up the footstool panel, providing a user a comfortable angle for resting.
2. The reclining office chair of claim 1 wherein a space for footstool is secured under the seat part to prepare the footstool to be used at any time and to save the space in the room; and wherein the space is secured by locating the backrest’s angle adjustment part in the center of the frame and simplifying the operation mechanism of the angle adjustment with a button and wire.
3. The reclining office chair of claim 1 wherein the gas cylinder of the backrest lets the user take any angle of the user’s choice up to 160 degrees and a guide frame regulates the backrest’s angle.

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