

ABSTRACT

IMPROVED MULTI USE OFFICE CHAIR

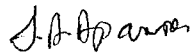
The invention is a multi-use office chair Fig 1 with an added adjustable joint 3 with a locking handle 4 between the seat & backrest for sitting or sleeping mode. The back rest has retractable leg tubes 5 on its back to support back rest in sleep mode. The seat rest has under it a sleeve 7 with a retractable leg frame 10 with a fabric. The leg frame has a leg tube 9 on each side. The leg tubes are adjustable in height and have a bush 6 to fix on floor.

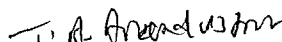
In sleep mode, the leg frame 10 is pulled front, the leg tubes 9 fixed on ground, back rest joint is loosened, and back rest tubes 5 are fixed on the floor. To sit, push in leg frame, retract back leg tubes 5, push back rest to sitting position and lock the handle.


We Claim:

1. A multi-use office chair, wherein the chair backrest² is adjustably fixed on the back edge of the seat 1 in a joint 3 provided with a locking handle 4, the back rest has on its back side two retractable leg tubes 5 forming the support to the straightened back rest in sleep mode, the chair seat having a sleeve 7 on the underside with an inside retractable leg support frame 10 moving horizontally, the leg frame¹⁰ has a top fabric 8 for resting our legs, the leg frame 10 has on each a side a leg tube 9 with a stopper bush 6 to fix on floor .
2. A multi-use office chair as claimed in claim¹, wherein the retractable leg tubes 5, 9 are sliding tubes for adjustable heights with a lower end stopper bush 6 on each to fix on the floor.

Dated this twenty third day of March 2015.


T.A. Aparna


T.A. Anand Vishnu


T.A. Vijayan

24 MAK 2014

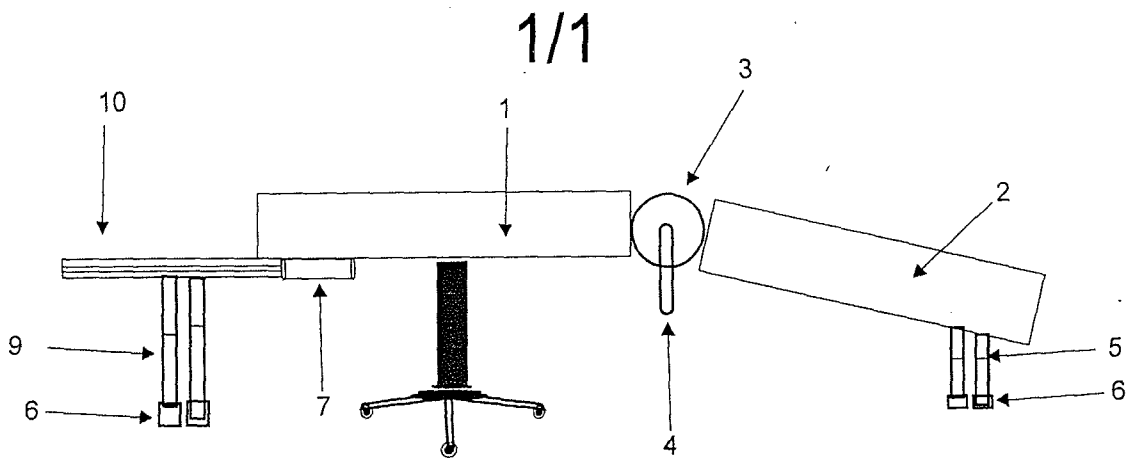


Fig-1

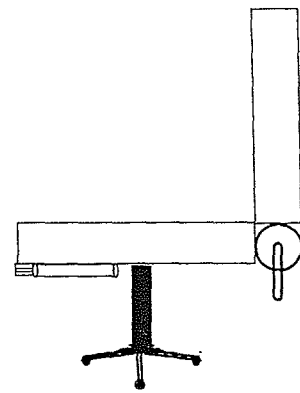


Fig-2

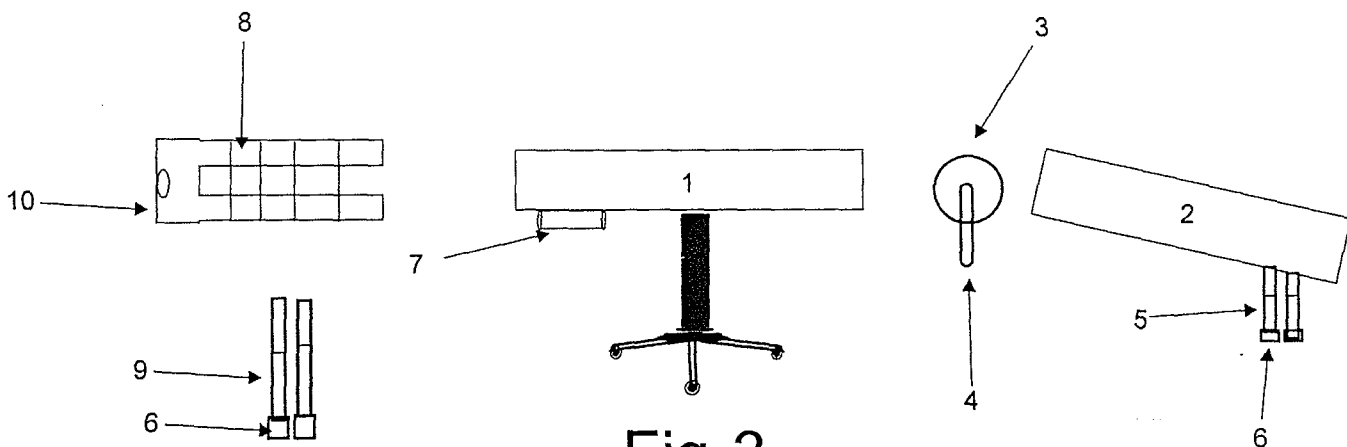


Fig-3

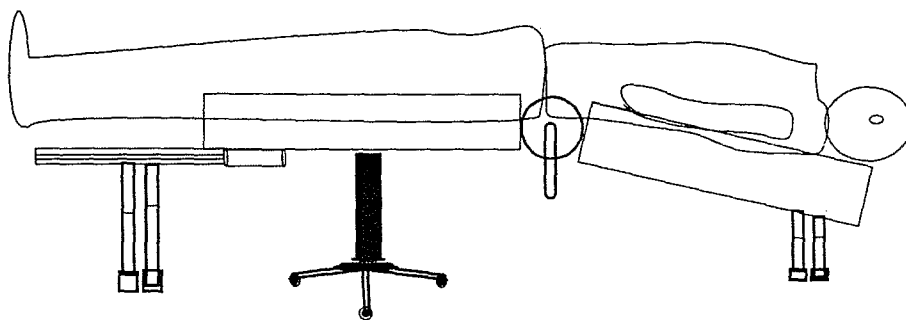


Fig-4

F 5 9 3 /CHE/ 2014 ORIGINAL

Presently office chairs are the leading cause of middle aged back aches. All existing office chairs do not allow the user to exercise their back and creates back pain after some hours of use in the long run. IT sectors, sedentary office users have chronic back ache after hours of sitting. These chairs support the back but do not allow users to exercise for brief periods in use. Exercising in office hours in the chair helps improve the strength of back muscles, avoiding backache, disc prolapse, surgeries. Mere support alone is not enough. We need to exercise the back for strengthening the back. None of the existing office chairs allow exercise in sitting. New chair can be spread flat like bed for short sleep too.

The improved chair has the seat and back rest supported on a pedestal with wheels. The back rest is fitted to back edge of seat in a controlled pivot joint for flat to vertical positioning. Near the head part of the back rest is a handle with legs that is pulled down to support the back and rest on floor firmly for a strong stable support. Underside of seat has a front pull on / retractable thigh and leg support.

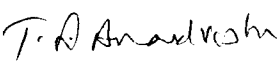
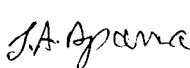
To use the chair, the back handle is released, the seat-back rest pivot is loosened and the back rest falls on floor with stable firm support. The thigh and leg support is pulled front from under the seat. The chair now forms a straight bed to sleep or exercise in lying down. Various leg raising exercises and lying down back exercises can be done or take a nap. After exercises, the thigh and leg support is pushed back under the seat. The back handle is released. The back rest is pivoted upright and locked in pivot for sitting.

The chair seat & back may have vibrators to relax in sitting. Electronic timed devices for exercises alarm may be fitted to chair. Arm & head rests may be added.

This chair offers sleeping, exercising in office with safe stronger pain free back support.

Dated this twenty third day of March, 2014


T.A. Vijayan

 
T.A. Anandvishnu T.A. Aparna