ABSTRACT

AUTOMATICALLY ADJUSTING HEADGEAR FOR PATIENT INTERFACE

A headgear for securing a mask to a user's face is described. The headgear requires a first load force to elongate the headgear and, when fitted to a user, applies a balanced fit force that substantially equals a load force applied to the headgear during respiratory therapy. In some embodiments, the headgear includes an elastic portion configured to provide a retraction force, a non-elastic portion configured to be inelastic in comparison to the elastic portion, and a restriction mechanism connected to the non-elastic portion and to the elastic portion. The restriction mechanism is configured to apply a first resistance force to the user's head on elongation of the headgear and a second resistance force to the user's head on retraction of the headgear.

(FIG. 1)