

ABSTRACT

The present invention discloses a roller blind with a tensioning device, comprising a power source, a roller, a curtain material, a length-limiting locating element, and a tensioning device; the length-limiting locating element is used to limit the unwinding length of the curtain material, including a positioning roller; the tensioning device includes a driving medium and a driving wheel assembly; the driving wheel assembly includes a driving wheel; the driving medium is ring-shaped and wraps around the driving wheel and the positioning roller; the power source is in meshing connection with the roller, and the roller is connected to the driving medium via the driving wheel assembly, ensuring the driving medium to rotate with the roller. The roller is also connected to the driving medium via the curtain material. During the unwinding process, the present invention can maintain the curtain material to be tensioned, flat, and not drooping, and can be widely applied in various scenes where roller blinds are installed on ceilings, slopes, facades, and in situations requiring inverted installation.

Fig. 4