

ABSTRACT

An ultrasonic three-dimensional absorber, comprising a non-woven fabric surface layer (1), an absorbent core body (2), and a liquid impermeable bottom layer (3); the non-woven fabric surface layer (1) comprises upper layer non-woven fabrics (4) and a lower layer non-woven fabric (5); the upper layer non-woven fabrics (4) are hot air molded from a first three-dimensional spiral crimped fiber (41) and a second three-dimensional spiral crimped fiber (42), the lower layer non-woven fabric (5) is hot air molded from a first two-dimensional crimped fiber (51) and a second two-dimensional crimped fiber (52); a plurality of upper layer air-permeable holes (43) are provided on the upper layer non-woven fabrics (4); the upper layer non-woven fabrics (4) and the lower layer non-woven fabric (5) form a plurality of embossed lines (6) by means of ultrasonic hot pressing; various embossed lines (6) form a plurality of surrounding regions; each surrounding region consists of a plurality of surrounding edges, two adjacent surrounding edges not being connected; and the various upper layer air-permeable holes (6) are located within the various surrounding regions. The present invention solves the technical problem in which existing non-woven fabric lacks softness and dryness retention. In addition, also provided is a preparation method for an ultrasonic three-dimensional absorber.

Fig. 5 for publication.