

A Multi-Row Blowing Device and Method for Assisting the Formation of Continuous Alumina Fiber Blanket

Abstract

5 The present invention belongs to the technical field of textile accessories. Disclosed are a multi-row blowing device and method for assisting in the forming of a continuous alumina fiber blanket. The device comprises a storage tank, a multi-row blowing mechanism and a hollow cylinder, wherein the storage tank is in communication with the multi-row blowing mechanism by means of a pipe; the
10 hollow cylinder is arranged under the multi-row blowing mechanism, and the multi-row blowing mechanism is connected to the hollow cylinder, a negative-pressure suction fan is provided under and in communication with the hollow cylinder, and the upper and lower surfaces of the multi-row blowing mechanism are respectively provided with a first layer of spinneret holes and a second layer of spinneret holes. By means of the present invention, it is possible to ensure that during the forming
15 of an alumina fiber blanket, alumina fibers are not sheared and damaged to form powdery alumina fiber during processing and forming, which results in reduced strength of the continuous alumina fiber blanket. In addition, by means of the present invention, it is possible to ensure that the alumina fibers are not damaged during the preparation process so as to eliminate the generation of the powdery alumina fiber, thereby guaranteeing the forming strength and quality of the continuous alumina fiber
20 blanket.

(Figure 1)