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(54) Title: MULTI-ROW BLOWING DEVICE AND METHOD FOR ASSISTING IN FORMING OF CONTINUOUS ALUMINA FIBER BLANKET

(54) 发明名称: 一种辅助氧化铝连续纤维毯成形多排喷吹装置及方法

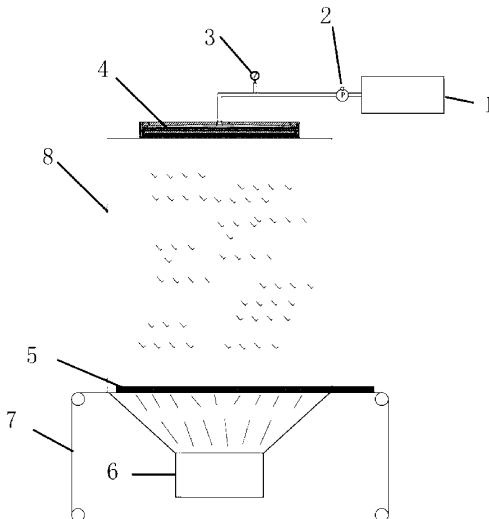


图 1

(57) Abstract: 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 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 of an alumina fiber blanket, alumina

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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 blanket.

(57) 摘要: 本发明公开了一种辅助氧化铝连续纤维毯成形多排喷吹装置及方法, 属于纺织配件技术领域。该装置包括储料罐、多排喷吹机构和空心筒, 所述储料罐通过管道与所述多排喷吹机构连通, 所述多排喷吹机构的下方设置有空心筒且与所述空心筒连通, 所述空心筒的下方连通有负压吸风机, 所述多排喷吹机构的上下表面分别设置有第一层喷丝孔和第二层喷丝孔。本发明可以保证氧化铝纤维毯在成形时, 不会在加工成形中对氧化铝纤维剪切破坏形成粉末状氧化铝纤维, 从而降低氧化铝连续纤维毯的强力; 本发明可以保证在制备过程中不损伤破坏氧化铝纤维, 杜绝了粉末状氧化铝纤维的存在, 确保了氧化铝连续纤维毯的成形强度和质量。