

Title (en)

ROTOR SPINNING METHOD AND APPARATUS USING THREE-COTTON-SLIVER ASYNCHRONOUS INPUT AND MULTI-STAGE CARDING

Title (de)

ROTORSPINNVERFAHREN UND -VORRICHTUNG MIT ASYNCHRONER EINFÜHRUNG VON DREI BAUMWOLLBÄNDERN UND MEHRSTUFIGER KARDIERUNG

Title (fr)

PROCÉDÉ ET APPAREIL DE FILATURE À ROTOR UTILISANT L'INTRODUCTION ASYNCHRONE DE TROIS RUBANS DE FIBRES DE COTON ET UN CARDAGE MULTI-ÉTAGE

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Application

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Abstract (en)

A device for a rotor spinning method using multi-level carding includes a spinning system and a computer control system. The spinning system includes a feeding and carding mechanism, a collecting and twisting mechanism, and a winding mechanism. The device is characterized in that the feeding and carding mechanism includes combined feeding rollers (2-4, 2-5, 2-6) having three rotation freedom degrees and multi-level carding rollers (2-8, 2-9, 2-10), the speed ratio of three rollers of the combined feeding rollers (2-4, 2-5, 2-6) having three rotation freedom degrees is adjustable, and therefore the linear density and blending ratio of rotor spun yarn can be regulated and controlled randomly. A rotor spinning method using three- sliver asynchronous input and multi-level carding is also disclosed.

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