

Title (en)

Method and apparatus for reducing blowline obstructions during production of cellulosic composites

Title (de)

Verfahren und Vorrichtung zur Reduzierung von Verstopfungen in pneumatischen Förderleitungen bei der Herstellung von Celluloseverbundwerkstoffen

Title (fr)

Procédé et dispositif de réduction des obstructions des conduites de transport pneumatique dans la fabrication de composites de cellulose

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Application

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Abstract (en)

An apparatus and method are described that allow for the continuous production of cellulosic products produced using reactive binder compositions by significantly reducing or substantially eliminating obstructions of the blowline. A binder application assembly is used to apply binder compositions to the cellulosic materials in the blowline. The application assembly generally is plumbed to the blowline at an obtuse angle and at a position adjacent the blowline outlet. The application assembly includes an air sheath that defines a conduit through which a binder applicator passes. Preferred embodiments of the invention also include a binder-diluent mixer that is operatively coupled to the binder applicator. The binder-diluent mixer includes a binder inlet for receiving a first stream containing a binder, a diluent inlet for receiving a second stream containing a diluent, and an inline mixer that is fluidly connected to the binder inlet and the diluent inlet to produce a mixed stream. The mixed stream is conveyed to the binder applicator and is applied to the cellulosic material in the blowline. The mixer may include supplemental inlets for receiving supplemental materials that are useful for producing cellulosic products. The method comprises conveying cellulosic material in a blowline and through a blowline outlet that is positioned inside an inlet portion of a dryer. Binder is applied to the cellulosic material in the blowline using the binder application assembly.

<IMAGE>

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Cited by

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