

SUMMARY DESCRIPTION
of
Insulation Application Machine Patents

APPLICABLE PATENTS:

U.S. Patent No. 6,092,747 dated July 25, 2000; U.S. Patent No. 6,364,579 dated April 2, 2002; U.S. Patent No. 6,964,543 dated November 15, 2005. Patents Pending are U.S. Divisional Patent Application No. 11-225,698, Dated September 13, 2005; Canadian Patent No. 2,311,971 dated June 19, 2000; Canadian Patent No. 2,349,794 dated June 7, 2001, and Canadian Patent Application No. 2,485,807 dated December 14, 2004,

DOCUMENTED INVENTION DATES:

January 1, 1991 Air/Fiber Separating System
December 5, 1991..... Live Bottom Re-circulating Agitation System
August 1, 1995 Automatic Modulated Fiber Feed System

PRIMARY FEATURES:

- An agitation system that **conditions, conveys and continuously re-circulates** excess material over the feeder opening to assure a uniform supply of product to the modulating feed system. This system eliminates the need for a transmission or variable speed drive to the agitators when changing feed rates or from cellulose to different fiberglass products.
- An automatic **modulating damper system** between the agitators and a fixed speed air lock feeder or a **variable speed air lock** with a manually adjusted damper to **continuously maximize the machine output** regardless of the conveying load imposed upon the system.
- A rotary air lock with **spiral vanes** to reduce system shock load and dramatically extend the air seal life.
- A rotary air lock **feeder that is operatively connected to a proportional controller** that automatically modulates the speed of the feeder to provide a continuous and maximum uniform supply of product to the conveying hose regardless of changes in product texture, moisture content, lift to higher elevations, hose size and length.

A **“SMART AIR”** operator set-point control panel that **automatically maintains** an operator pre-determined **constant airflow** to carry product through the conveying hose to improve coverage and dust control.

A **“SMART FEED”** operator set-point control panel that **automatically maintains** an operator pre-determined **constant feed rate** of product through the conveying hose to dramatically improve machine output, coverage and dust control.

A **“SMART SPRAY”** operator set-point control panel that **automatically controls** an operator pre-determined **liquid flow** to improve the liquid/fiber mix.

A **“SMART VACUUM-SPRAY”** reclaim and wall spray system that utilizes only **one blower** for conveying and high capacity vacuuming.

Any insulation application machines manufactured and sold after the documented invention dates listed above that encompass the features described could constitute an infringement of the patents and should be notified of such violations.

It is very important that notices of patent protection be evident on all literature, operating manuals and on each machine shipped so as to preclude a competitor from an excusable infringement of protected rights.

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