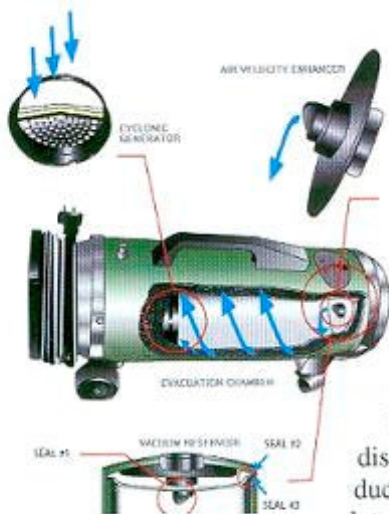


# Design Patent Issued To Air-Tec, Division Of Loveco Enterprises, Inc.

*The Most Significant Since The Introduction Of The Paper Bag*

*By George H. Lovely Jr., Air-Tec*

Since the introduction of the first disposable bag by the Airway Electric Corporation in Toledo, OH, during the early 1920s, countless millions of disposable containers have been sold and are being sold in the vast majority of all vacuum cleaners being produced today. Some manufac-



turers have tried to eliminate the disposable bag with only limited success. By far the vast majority of the buying market has accepted the convenience and sanitation of the disposable bag, including their cost, as the primary source

for dirt disposal. Even though the first disposable bag was introduced in the early 1920s, as late as January 1949, when I

sold my first vacuum (Airway Sanitizer model 55), the entire vacuum cleaner industry, with the exception of Airway and Rex Air Corp., were disposing of their dirt by either shaking out a bag or emptying a solid container. At that time, due to their cost, the convenience and sanitation of a disposable bag still had to be sold.

From early 1949 to the present, the vacuum cleaner market has gone through a vast change. They have accepted the disposable bag and their inherited cost as the primary method of dirt disposal. However, bag costs, although accepted by the market, are still a concern to the majority of your customers and could be successfully used as a merchandising tool by the vacuum specialty store. The general market knows the difference between a cheap substitute and a quality bag and is willing to pay the difference. However, all customers are interested in a good investment where they can buy quality and realize an immediate savings. With Air-Tec's unique Air Velocity Enhancer design, a prospect can be shown immediate and long-term savings because its design allows 20 percent more dirt to be stored in the bag, while still maintaining cleaning efficiency. Now, if each bag is capable of holding 20 percent more dirt, for every five bags a customer buys, it's like receiving one bag free. This could be a consider-

able savings over a period of time. On the other hand, to obtain the equivalency of an additional 20 percent extra dirt storage in the conventional disposable bag while still maintaining cleaning efficiency, a customer would have to buy an extra bag for every five bags purchased.

How does the new design patent work? The Air Velocity Enhancer, made exclusively for the Bold Knight (BK) by Air-Tec, is designed to deflect and channel the incoming stream of air directly through the topside of the disposable bag into the BK's double hull construction. This double hull construction contains a vacuum chamber, which completely surrounds the disposable bag. As the air from the Air Velocity Enhancer enters the vacuum chamber, it is easily spun down the outside of the bag containing the dirt. This unobstructed air, with the help of the cyclogenerator, is then spun



through the BK's filter assembly directly through the motor. This new concept of air passing on the outside of the bag containing the dirt instead of trying to force the passage of air through the dirt in the bag is the main reason top cleaning efficiency is maintained as the bag is being filled to 90 percent of its capacity. In addition, the Air Velocity Enhancer is neatly storing the dirt within the bag while maintaining a cleaning path, which gives easy access to the incoming air stream. This incoming air now has easy access to the vacuum chamber within the BK's double hull construction.

I would like to thank the entire vacuum cleaner industry for the opportunity it gave me, at the age of 19 (as it still does to others), to work hard, earn an engineering degree, become an independent entrepreneur, and, as in my case, manufacture my own vacuum cleaner with a contaminate filtering system second to none.

Be sure to stop by our booth at the VDTA Show in Las Vegas in March 2003. For further information, visit our Web site [www.air-tec.com](http://www.air-tec.com) or call toll-free 1-866-8AIRTEC (1-866-824-7832.)

I would also like to thank my wife Evelyn for the time I took to write this article while on a 21-day cruise. ❖