



### **PARI Granted US Patent for Vortex Holding Chamber**

*Midlothian, Virginia; July 21, 2009* – PARI Respiratory Equipment has been granted a US Patent for its Vortex Holding Chamber, a unique, non-electrostatic, holding chamber with a one piece, dual-valve system that optimizes patient inhalation and exhalation for more efficient medication delivery with a metered dose inhaler (MDI).

“While metered dose inhalers offer a quick burst of medication, there are a number of problems delivering an effective dose to patients. These include medication waste due to high-speed delivery to the back of the throat and loss of medication due to improper use. The Vortex Holding Chamber does a wonderful job of addressing these issues, in particular for young patients and for any person who has difficulty using an inhaler, by allowing patients to breathe normally while using the one piece, dual-valve system to direct medication flow and a patient’s exhalation breaths,” said Dr. Welch, co-director of the Allergy and Asthma Medical Group and Research Center in San Diego, and clinical professor at the University of California, San Diego School of Medicine.

“Innovations like the Vortex Holding Chamber truly enhance respiratory care by making therapies easier for patients. We are very pleased that the Vortex Holding Chamber has been granted this US patent, because the Vortex Holding Chamber ensures patients do not have to worry about coordinating their breaths when using a MDI to get an effective treatment. This enhances drug delivery, minimizes drug delivered to the throat, and allows low resistance inhalation and exhalation with the device,” added Geoff A. Hunziker, president of PARI Respiratory Equipment.

The Vortex Holding Chamber has a number of unique features. When a patient inhales, the Vortex Holding Chamber directs airflow through a medication holding chamber and into the patient. During exhalation, airflow is directed out of the device while reducing medication loss. Because it is metal, the Vortex Holding Chamber’s non-electrostatic walls do not attract medication as plastic devices do, thereby reducing medication loss in the holding chamber. It also features a cyclonic, inspiratory flow pattern that further enhances aerosol delivery. Patients can breathe normally while the Vortex Holding Chamber’s one piece, dual-valve system enhances medication delivery and reduce drug waste.

#### **About PARI Respiratory Equipment, Inc.**

PARI is a leading worldwide developer and manufacturer of fast and efficient aerosol delivery systems for patients with asthma, chronic lung disease, and cystic fibrosis. PARI’s worldwide vision is to improve the lives of those affected by respiratory diseases and those who care for them.

Maker of the world’s leading breath-enhanced reusable nebulizer, the PARI LC PLUS, and the new PARI LC Sprint nebulizer line, PARI also manufactures the award winning PARI TREK S compact compressor, Bubbles the Fish II aerosol mask, and durable PARI PRONEB Ultra II. Its Vortex Holding Chamber’s anti-static valved holding chamber improves the aerosol deposition of metered dose inhalers (MDIs). PARI’s North American headquarters is in Midlothian, VA with worldwide headquarters in Starnberg, Germany. Online at [www.Pari.com](http://www.Pari.com)

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