

## MANUAL VENTILATOR FOR EFFICIENT LUNG INFLATION

### The Opportunity

The MetroHealth System of Cleveland, Ohio has developed a novel manual ventilation device for assuring maximum lung inflation with an easy-to-use procedure.

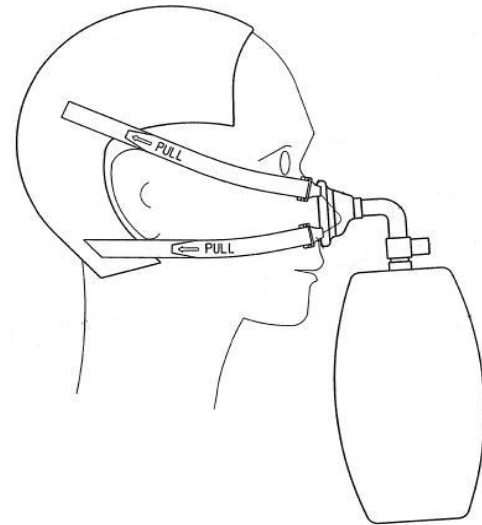
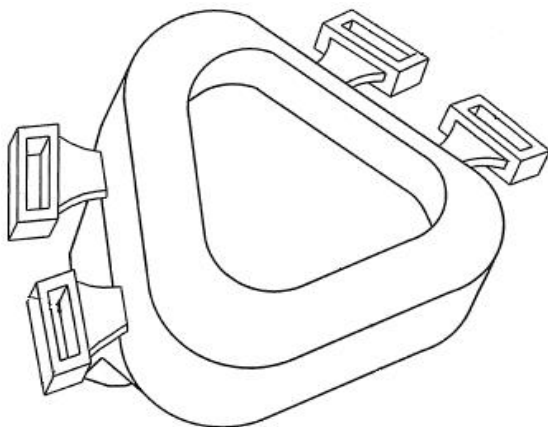
The primary innovation is in the *combination* of

- A ventilation bag which pumps air when squeezed by hand
- A nasal mask which is efficient and easy to use
- A systems of strap and cap to hold the mask in place

### Technology

The main benefits of the technology are:

- The nasal mask is simpler to position than a full-face mask, and more readily assures that air is forced into the lungs
- The strap and cap hold the mask in place, allowing for one-handed operation
- The mask and straps are designed for easy placement by minimally trained personnel.
- The system can be easily augmented by attaching a mechanical or pressurized source of air or oxygen.
- Replaces mouth-to-mouth resuscitation and it's attendant problems with fluid exchange



### Application

The design is readily suited to many applications:

- Resuscitation
- Patient transport
- Intensive Care Unit
- Power outages
- Emergency room
- Critical Care Unit
- Operating rooms
- Patient wards
- EMS

### Intellectual Property

Patent application have been filed (October 2007) to protect this unique combination of capabilities:

- US Application No. **2008/0092895**
- Canadian Application No. 2,607,111
- PCT Application No. PCT/US07/81869

### For More Information

METROHEALTH is seeking qualified partners to bring this innovative manual ventilator to market.

*For more information, contact:*

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