Features of Apparatus for Respiration in Noxious Atmospheres

1. A harness designed for rapid donning.
   a. The harness is designed to fit individuals of any shape or size without adjustment.
   b. The harness contains a pocket for carrying a small (311) cylinder of oxygen.

2. Oxygen supply.
   a. A small, high-pressure cylinder containing 51 liters of oxygen at 1800 pounds pressure.
   b. A regulator attached to the cylinder reduces the pressure and maintains a flow of 1.5 liters of oxygen per minute.

3. Rebreathing system — Consists of inhaler, over-pressure valve, corrugated tube, soda lime container, and rebreathing bag.
   a. The inhaler is the oronasal type with a thin, flexible edge to assure fit on a variety of facial structures.
   b. The over-pressure or exhalating valve permits the escape of excess gas without permitting the entrance of outside air.
      Since the valve is situated just below the inhaler, it is the latter part of the exhalation containing the highest percentage of CO2, which is lost.
   c. The corrugated breathing tube is equipped with an individual ring in each corrugation which eliminates the danger of kinking while retaining flexibility.
   d. The soda lime container is the "To and fro" type. CO2 is extracted from the gas as it is breathed back and forth through the container.
   e. The rebreathing bag is of heavy latex rubber. It has a capacity of about three liters.