

### New Ventilator Might Replace The Iron Lung

Cambridge, England (Science Service)—Following extensive research and close co-operation between the medical profession and precision engineers, an electronic lung which can replace iron lungs, has been perfected.

Called the Barnet Ventilator, the lung has been a joint venture by several British electronic companies, each of which contributed specialized knowledge and technical facilities. The instrument is manufactured by W. Watson and Sons, Ltd., a member of the Pye Instrument group of Cambridge.

Paralysis of the muscles of respiration is a frequent result of poliomyelitis and the life of patients suffering from this manifestation of the disease depends upon prolonged artificial respiration.

**Use of Iron Lung**  
In the past patients have had to be put in an iron lung, which is essentially an airtight box in which pressure is varied, by means of pumps, between positive and negative values, each cycle causing the lungs to inflate and deflate within correct physiological limits.

The iron lung is an effective machine for sustaining life but, since only the head of the patient is outside the lung, dependence upon nursing staff is complete. The patient has no liberty whatsoever.

Treatment of such cases by means of the Barnet Ventilator gives the patient considerable freedom. Instead of being encased in a box the patient is linked to the Ventilator by two plastic tubes. Breathing is sustained by the alternation of positive and negative pressure, air being pumped into the lungs during the positive phase and extracted during the negative.

The number of respirations per minute, the ratio of inspiratory to expiratory time and the volume of air entering and leaving the lungs are matters of very great importance. By using the Barnet Ventilator any, or all of these facilities can be instantly and precisely adjusted within physiological limits.

**Ventilation Light**  
The iron lung is large and heavy and when it is necessary to move a patient, serious transport problems arise. The Barnet Ventilator, on the other hand is very portable and weighs only 56 pounds. It has built-in batteries from which its transistorized circuit will run for up to 20 hours without recharging. Thus the polio patient can be moved from one hospital to another or by air between continents without difficulty. In addition to its use in polio the Ventilator is of the utmost value in every case of respiratory insufficiency arising from any cause.

### Science for All Urged on Radio, TV

Washington (Science Service)—Television and radio should present science in all aspects to the public and not rely on a few "spectaculars" and a spotty presentation of news to serve the public with science.

This was one of the points made by Dr. Watson Davis, director of Science Service, Washington, in testimony before the Federal Communications Commission.

He also advocated a nationwide science club program over TV, contending that teenagers would watch it with as much interest as they view popular programs now on the networks.

"There are tremendous possibilities in the use of information as entertainment," Dr. Davis said. "Much of the early popularity of the quiz shows was derived from their informational content."

### Student Drives Bus To College Classes

Bridgeport, Conn. (UPI)—Many college students drive to their classes in sports cars, jalopies or conventional autos. But Gordon A. Wagner, a senior at the University of Bridgeport, has them all beat.

He rolls onto the campus behind the wheel of a 32-passenger bus.

Wagner has a part-time job as a bus driver, carrying pupils to and from three public schools. His employers let him use the bus to attend his college classes and student council meetings.

"The biggest problem is parking the thing," says Wagner. "So many students drive cars to the campus, there isn't much room for a bus."



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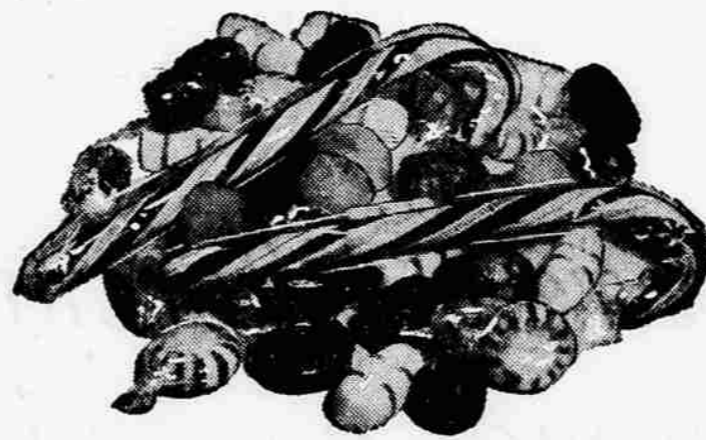
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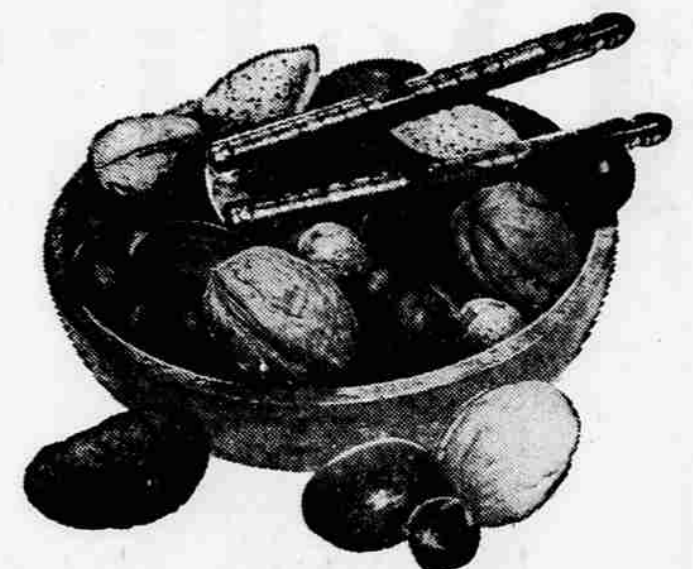
14-oz. pkg.

**39¢**

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