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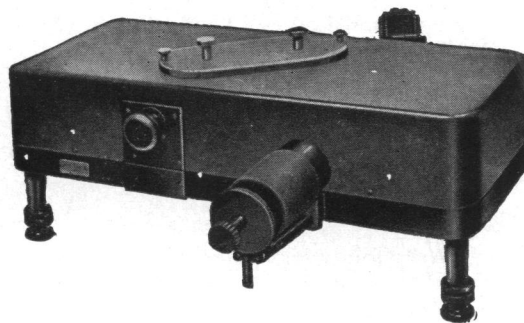
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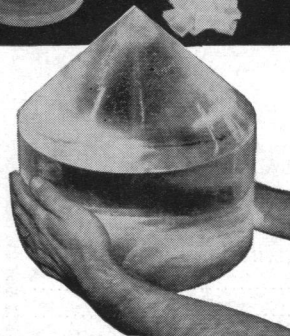
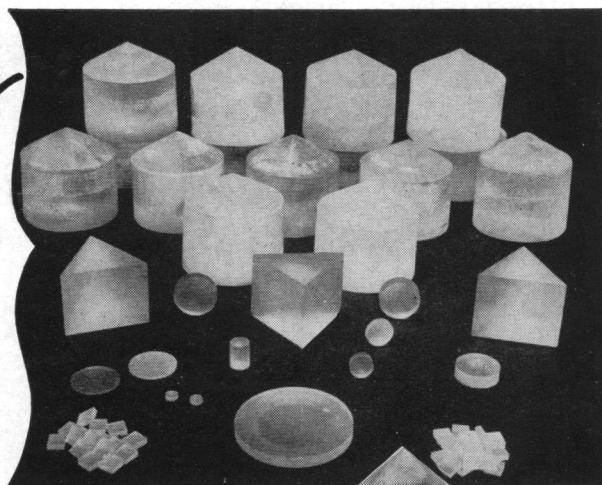
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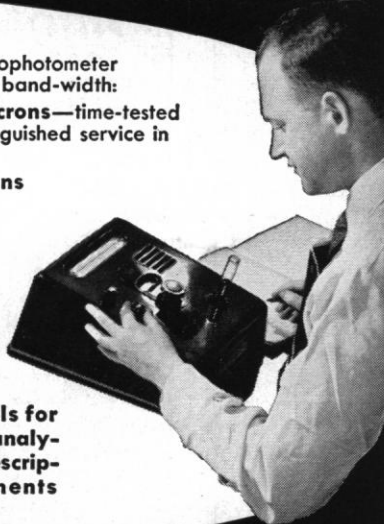
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EQUIPMENT NEWS

The information reported here is obtained from manufacturers and from other sources considered to be reliable. Science does not assume responsibility for the accuracy of the information. All inquiries concerning items listed should be addressed to Science, Room 740, 11 W. 42 St., New York 36, N.Y. Include the name(s) of the manufacturer(s) and the department number(s).

■ **HUMIDITY CONTROLLER** maintains constant humidity within ± 0.25 percent relative humidity in an air or gas stream. The unit comprises a sensing element, control system, and modulating device. Sizes ranging from one with a capacity of 20 ft³/min are available. The control point is set by a knob. Operation is accurate in the humidity range from 3 to 98 percent. (Universal Dynamics Corp., Dept. S724)

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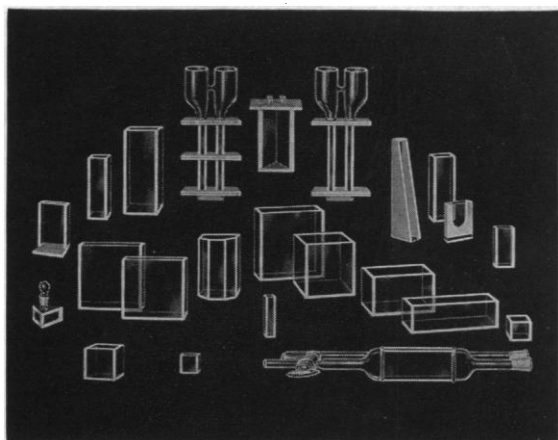
■ **VACUUM-FUSION APPARATUS** provides direct analysis of hydrogen and oxygen in alloys, nitrogen being determined by difference. Both vacuum-fusion and high-temperature extraction can be used. Oxygen analysis is performed in an auxiliary apparatus which connects through a ball-and-socket joint. Oxides in the sample react with graphite to produce CO, which is further oxidized to CO₂ and measured. Hydrogen concentration from 0.1 to 2000 parts per million is measurable. The hydrogen is separated by diffusion through palladium and measured volumetrically. Results are said to be accurate to ± 0.2 part per million. (Fisher Scientific Co., Dept. S743)

■ **LIQUID-NITROGEN REFRIGERATOR** is a special container designed to permit storage baskets filled with material to be lowered into the liquid nitrogen. The unit weighs 115 lb fully charged and 60 lb empty. A single charge of liquid nitrogen will maintain a temperature of -320°F for up to 34 days. (Union Carbide Corp., Dept. S741)

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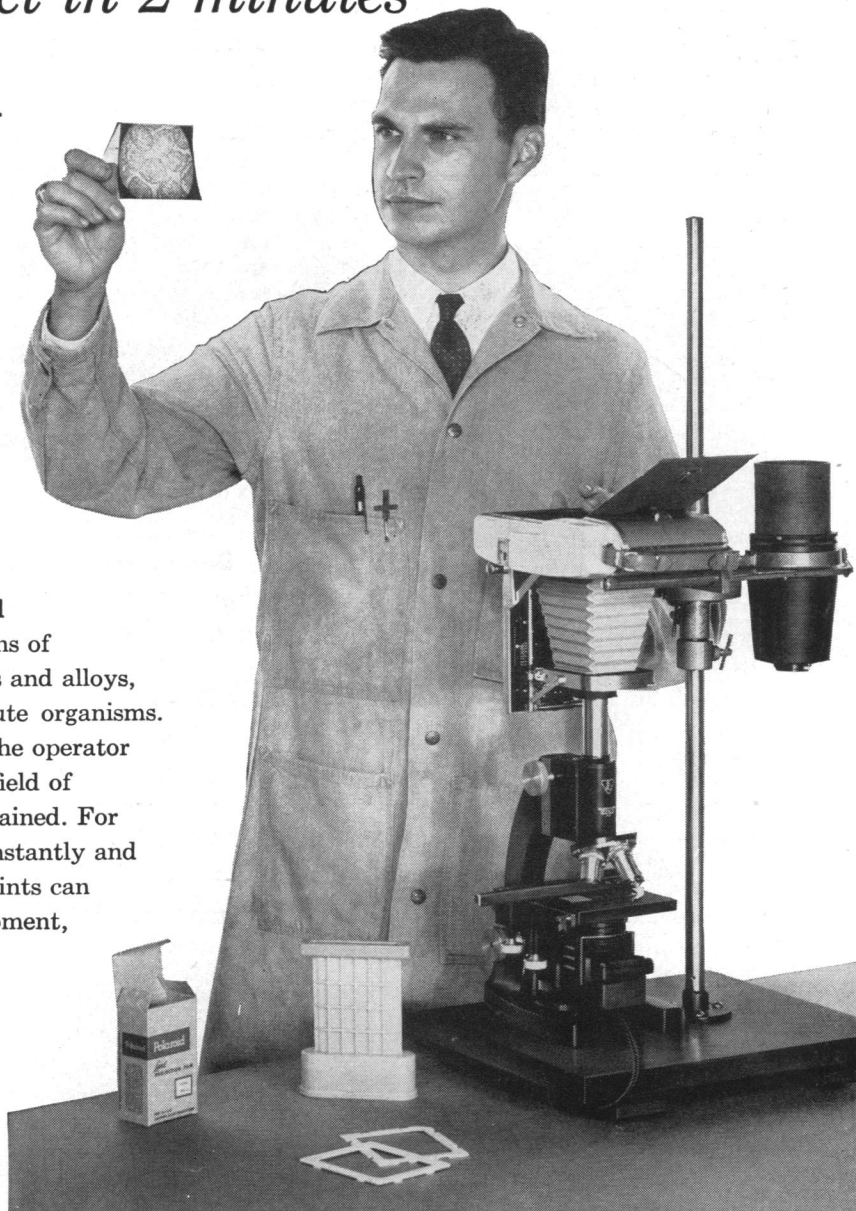
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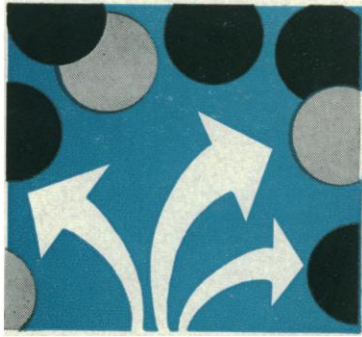
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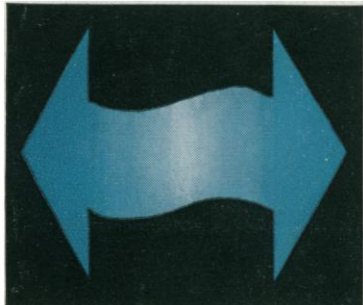
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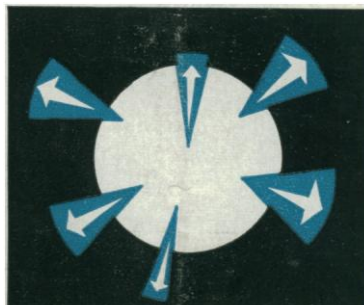
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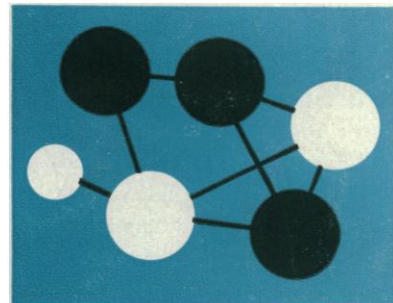
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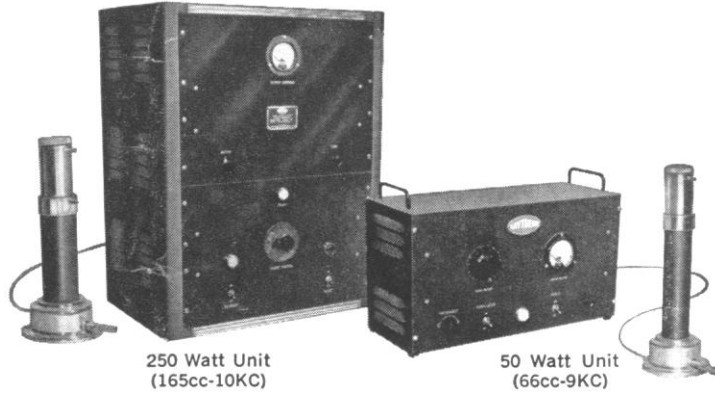
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