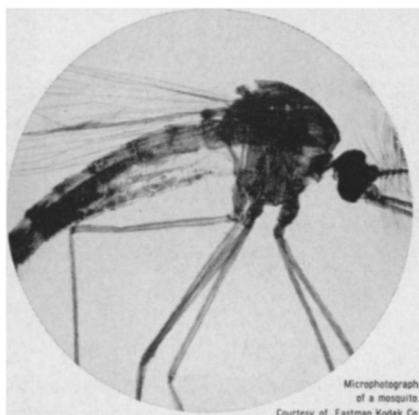
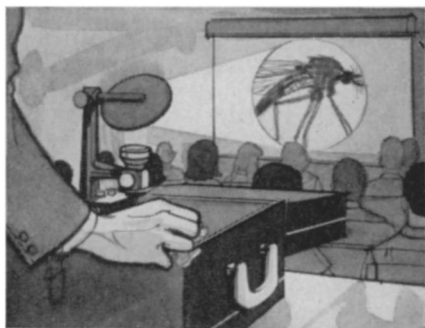


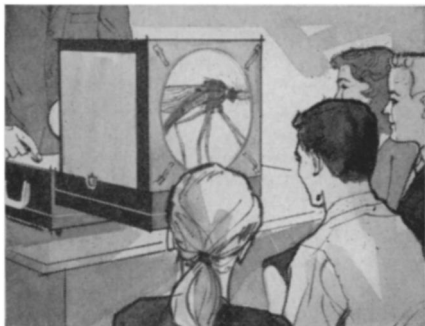
There are 3 ways to look at it



Microphotograph of a mosquito. Courtesy of Eastman Kodak Co.



ON WALL SCREEN



ON REAR PROJECTOR



ON TRACING TABLE

Only the Elgeet Micro-Projector Model MP-1 can show your biology slides three ways: 1. Zoom lens fills wall screen. No objectives to change. No turret to rotate. 2. Rear projection screen shows slides even in fully lighted room. 3. Rear projection unit swings upright to form convenient horizontal tracing table.

Air-cooled illumination system, live specimens live longer. Horizontal stage for convenient projection of fixed or live specimens. Compact, portable . . . only 12" x 13½" x 8" For no-obligation demonstration, write Elgeet Optical Co., Inc., 303 Child St., Rochester, N. Y. 14611.

Elgeet

INVENTION

Patents of the Week

Pure water, useful power, and a residue of dry salt are all products of a method of desalting water by the use of superheated steam.

► A METHOD of making pure water from salty water using superheated steam was granted patent 3,147,598 by the U.S. Patent Office.

The method was devised by Joseph R. Wilson of Pittsburgh, who assigned rights to the Westinghouse Electric Corporation, East Pittsburgh, Pa.

The pressurized vapor formed by heating the impure water, together with the pressurized steam causing the vaporization, is reheated and then used to turn a steam turbine, thus giving both useful power and pure water.

The salty impurities removed from the vapor are collected in dry form, and this salt can also be used, Mr. Wilson has found.

Rating Television Watchers

A system for checking on the viewing habits of television watchers earned patent 3,148,245, with rights being assigned to the A. C. Nielsen Company, Chicago, by Charles H. Currey, Palatine, Robert L. Freeman and Darrel W. Holbrook, Glenview, and Gordon K. Truesdale, Morton Grove, Ill.

Information automatically tabulated each minute includes the so-called "fast rating," based on the total number of homes using television and the total number of homes tuned to a specific channel, and "home minute detail information," a detailed record of how each television set is being tuned.

Before the new invention was available, one telephone line was required to transmit these data for each television set being monitored.

Now, however, several sets can be hooked to the same telephone line, and the information is still available on a minute-by-minute basis.

This is done by working out a time-sharing arrangement, by which the information from each set is placed on the line at a predetermined time.

The signals are then decoded at the central office.

'Taxicab' to Space Vehicle

A space vehicle that changes its shape so it can travel at the high speeds necessary to reach orbit or at the much slower speeds for controlled flight and landing earned patent 3,147,936 for Earl J. Mercille of Creve Coeur, Mo.

Whereas the Mercury capsule in the U.S. manned space flight program could be recovered only from water, the recoverable vehicle devised by Mr. Mercille can land at any desired airport. It unfolds to convert what is, in effect, a missile to a delta-shaped airplane.

Mr. Mercille assigned patent rights to McDonnell Aircraft Corporation, St. Louis, the firm that built the Mercury space capsules.

He said his design is not yet being produced.

Other Interesting Patents

An improved mouthpiece for underwater breathing devices. Jacques Yves Cousteau of Paris, the world-famous French undersea pioneer, and Emile Gagnan of Montreal assigned rights to patent 3,147,752 to La Spirotechnique.

An engine for cooling materials to temperatures within less than 50 degrees of absolute zero, which is 459.7 degrees below zero Fahrenheit. Stephen F. Malaker of Mountainside, N.J., and Dr. John G. Daunt of Ohio State University assigned rights to patent 3,147,600 to Malaker Laboratories, Inc., High Bridge, N.J.

A flash lamp that uses guided air sparks to produce the high-intensity, short-duration light flash needed for ballistic photography. Dr. Harold E. Edgerton of Cambridge, Mass., and John Tredwell of Chicago were granted patent 3,148,307, with Dr. Edgerton assigning his right to Edgerton Germeshausen & Grier, Inc., Boston.

A process for forming color images from two black-and-white records of a scene, one having been made through a green filter and the other through a red filter. Dr. Edwin H. Land of Cambridge, Mass., and his three co-workers assigned rights to patent 3,148,058 to Polaroid Corporation, Cambridge.

A method of reducing cholesterol levels in chickens, by adding one of 13 different substances, including several kinds of gum. Marvin J. Fahrenbach and Benjamin A. Riccardi of Pearl River, N.Y., assigned rights to patent 3,148,114 to American Cyanamid Company, New York.

• Science News Letter, 86:206 Sept. 26, 1964

Do You Know?

A new industrial "guillotine" uses a cushion of air to float plastics into position for cutting.

In the United States an average of 32 people a day are killed by fire, 15 of them outside their own homes.

The average U.S. family is no larger than it was a decade ago (three to four members), but the number of childless couples has declined.

The U.S. Public Health Service is labeling prescription bottles with pictures instead of words for use by Navajo tribes who do not use an alphabet.

• Science News Letter, 86:206 Sept. 26, 1964