

Patents of the Week

An electronic apparatus that uses the patient's heart-beat as a clock to time either diagnosis or treatment has been granted a patent.

► AN ELECTRONIC DEVICE for timing the treatment of a patient by his own heart-beat was granted a patent by the U.S. Patent Office.

William G. Burt Jr. of Weston, Mass., assigned rights to patent 3,129,704 to Cordis Corporation of Miami, Fla., which is a bio-medical company specializing in cardiovascular instruments.

Mr. Burt's apparatus monitors the heart-beat of a patient, using it as a clock to time either diagnosis or treatment. The most prominent pulse picked up by an electrocardiograph, called the "R" pulse, is amplified and used as the trigger.

This pulse is then delayed and modified by the equipment to form other signals that operate devices for examination or treatment. For instance, it could operate a pump connected to the patient's circulatory system. The pump may be used to vary a patient's arterial blood pressure, by decreasing pressure during systole to relieve a weakened heart.

Or the pump could inject a dye opaque to X-rays into a patient's circulatory system so that after a certain time, when the dye has reached the desired place, an X-ray can be made of that region.

The apparatus controls both the time delay and duration of pumping.

New Kind of Golf Course

A new kind of golf course has been invented by James M. McKee of Dallas, Texas. It can be built on only 60 to 80 acres, compared to the large number of acres required for conventional golf courses, yet still give 6,000 to 7,000 yards of playing space.

Mr. McKee says that his design for a golf course, for which he was awarded patent 3,129,943, reduces not only the amount of walking but the playing time required for a conventional game. This is because the player does not follow up his ball.

All balls are hit from a central area, from which the fairways extend like the spokes of half a wheel. The zone in which the golf ball falls, marked for each fairway, determines the score for that shot.

The nine or 18 hitting stalls in the central area are covered so that the game can be played in bad weather or at night. A clubhouse is also provided.

Other Significant Patents

An apparatus for detecting blood spots in eggs by focusing light that has passed through the eggs on a photoelectric cell—patent 3,130,255 to Wayne E. Blackburn, Burbank, Calif., Thomas D. Bryant, Tujunga, Calif., and Donne I. Harris, Los Angeles, who assigned rights to General Precision, Inc.

A worm pot for storing, feeding and sell-

ing the cultured worms used by homeowners, gardeners, farmers and fishermen—patent 3,129,692 to Voris R. Sanderson of Murray, Ky.

A torque-converting propeller that will allow a slow-speed propeller to be carried on a high-speed drive shaft without requiring a mechanical reduction gear—patent 3,129,767 to William B. McLean of China Lake, Calif., who assigned 50% of the rights to Walter G. Finch of Baltimore, Md.

A collapsible radio reflector for life rafts that can be inflated to reflect radar signals—patent 3,130,406 to James Jones-Hinton, Tanworth-in-Arden, Solihull, and Thomas Edward Horace Gray, Wylde Green, Sutton Coldfield, England, who assigned rights to Dunlop Rubber Company of London, England.

A device for casting a fishing lure by a stringed bow to provide both distance and accuracy—patent 3,129,525 to Roy K. Lewis of Dallas, Texas.

An underwater mower attached to an outboard motor to remove underwater vegetation tangling a propeller—patent 3,130,531 to Arnold Woelzlage, Geneseo, N. Y.

• Science News Letter, 85:301 May 9, 1964



With artificial satellites already launched and space travel almost a reality, astronomy has become today's fastest growing hobby. Exploring the skies with a telescope is a relaxing diversion for father and son alike. UNITRON's handbook contains full-page illustrated articles on astronomy, observing, telescopes and accessories. It is of interest to both beginners and advanced amateurs.

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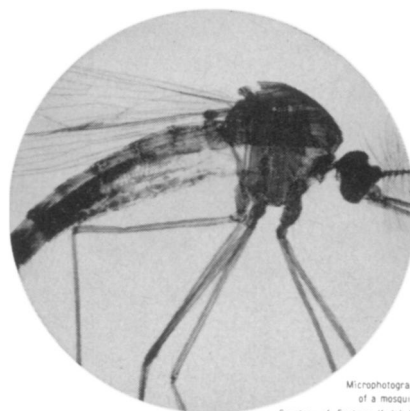
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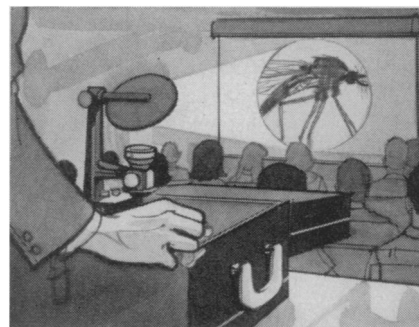
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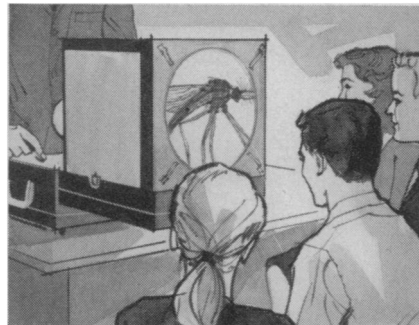
There are 3 ways to look at it



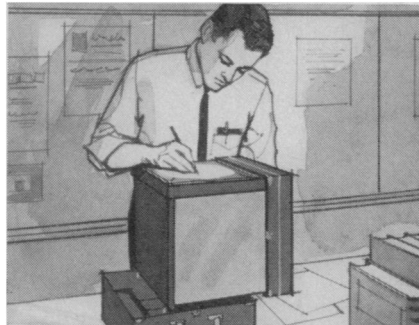
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