

for marine vessels. The Council listed this need. The American Hydromath Corp., considerably surprised, told the Council it had just the thing. In fact, it had been trying to sell its gauge to the Army for some time, but the Army turned the corporation down. Sure enough, the Council found out, this gauge was just what the Army needed.

For the first time, foods and food products are now being listed by the Council. Previously the Quartermaster Corps developed its own products. Now the Council is letting inventors know that the Armed Forces requires 100 canned meat items, distinctly different in flavor, texture and appearance characteristics. These must have a storage life of one year at 100 degrees Fahrenheit. Approximately 35 of these 100 are now available.

Also needed are canned seafood items, dehydrated precooked meat products and an all-purpose survival ration bar as well as the dry cream previously mentioned.

Among other technical requirements publicized by the National Inventors Council are insulating materials for various special purposes, improved load-carrying systems for individual soldiers assigned to special functions, waterproof clothing, a gelling agent for gasoline, a method of rapidly splicing field wire, an extra-light snow vehicle, a substitute for down and feathers in sleeping bags, and a personal heating system that does not involve an uncomfortable face mask.

Science News Letter, May 2, 1953

TECHNOLOGY

**Easy-to-Build Gauge Tells Farmers of Winds**

➤ AN INEXPENSIVE, easy-to-build wind gauge for use in agricultural spraying has been developed by two members of Texas A. and M. College, College Station.

Compact, rugged and simple in design, the gauge can be constructed in a farm or ranch shop with materials available from a local tinsmith.

Essentially the gauge consists of a swinging indicator suspended from a pin. The indicator is blown through an arc depending upon the force of the wind. A pointer on the indicator moves over a scale, graduated from zero to 10 miles an hour, from which the wind velocity is read. If the wind is blowing faster than 10 miles an hour, spraying should not be done—particularly from airplanes.

Wayne G. McCully, assistant professor in the department of range and forestry, and H. F. Miller, formerly of the department of agricultural engineering but now an agricultural engineer at the University of California, developed the gauge.

Their description, along with detailed drawings and graduated scales for different gauges and types of metals, has been published as Progress Report 1466 of the Texas Agricultural Experiment Station.

Science News Letter, May 2, 1953

ELECTRONICS

**Synchronize 3-D Movies**

➤ A LITTLE electronic gadget about the size of a football has been adapted to keep three-dimension movie projectors in step with each other.

Called selsyns, the devices produce an electrical coupling between the two projectors needed to show Natural Vision third-dimension movies. They do not have some of the disadvantages of the mechanical system formerly used.

The trick of showing 3-D movies such as "Bwana Devil" lies in keeping the two projectors in exact synchronization. That type of third-dimensional picture requires two films to be shown at once on a flat screen. The films are viewed through polaroid glasses so that each eye gets a slightly different picture to produce the illusion of depth.

If one projector gets ahead of the other, the screened picture gets out of step with itself and the third-dimensional effect goes haywire. To prevent that from happening, a mechanical coupling between the projectors has been used. But now the little selsyns, which are about the size of a football, can do the same job. And they can do it better.

If a 3-D short subject were included in a program of standard films, the mechanical coupling had to be connected and disconnected three to seven times a day. The spinning bar also consumed valuable space and made it difficult for the operator to thread his machines.

The selsyns connect and disconnect at the flick of a switch. They are attached to the projector in such a way as to require little space.

MEDICINE

**Diagnose Heart Disease By TV in the Future**

➤ DIAGNOSIS OF heart disease by TV is promised for the future by Westinghouse Electric Corporation and cooperating physicians at the University of Maryland School of Medicine.

A "revolutionary new X-ray unit," developed by Westinghouse, will make possible the televising of the heart and other internal organs as they would appear on the fluoroscope to a doctor examining the patient in person. A TV set in the doctor's office will give him the picture even if the patient is thousands of miles away.

A nation-wide audience saw a demonstration of this new diagnostic method on Sunday, April 26, when Dr. William S. Love of the University of Maryland demonstrated how the unit can diagnose different forms of heart disease and detect stomach ulcers.

Science News Letter, May 2, 1953

The largest deposits of anthracite coal in the U. S. are in eastern Pennsylvania.

When one projector begins to run faster than the other, currents flow between the selsyns through three wires. These currents cause the selsyns to act on the projector motors to keep them running at the same speed. While this happens, the audience is unaware that anything unusual is going on.

The selsyns cost about \$100 each and are being produced by General Electric at its Fort Wayne, Ind., plant.

Science News Letter, May 2, 1953

**DEAFNESS**

Made Me a Laughing Stock...



But That Was Before This FREE BOOK Showed Me How to HEAR AGAIN!

It hurt deeply when I first found out, but now I can't blame folks for laughing at me. Some of my answers to half-heard questions must have been really ridiculous. But that's all past history now, thanks to a helpful FREE book which told me how the wonderful science of electronics had helped thousands like me to hear again with amazing ease and clarity. You, too, may find the same glorious good news in this book, so why not send for it today? It's yours 100% FREE of cost or obligation. Just mail the coupon.



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