

ULTRA VIOLET LIGHT USED TO KILL BACTERIA

Cleveland, O.P.—The General Electric Co. is making a lamp which kills germs in food, water and air by means of ultra-violet rays.

The instrument is called the germicidal lamp—a long, thin bulb that looks like an exaggerated test tube, and which kills germs in less than a minute.

Although the lamp has been in use for several years in hospitals, industrial plants and research laboratories, its accomplishments have not been disclosed by the company until recently.

The company does not claim that the use of germicidal energy of this nature will eliminate the possibility of contracting diseases communicated by air-borne bacteria.

The effective germicidal energy emitted by the lamp is produced by electric current passing through mercury vapor at low pressure.

Development of the lamp has made possible, company officials say, the practical use of effective germicidal energy to solve many hygiene and industrial problems involving organisms ranging from mold spores and yeast cells to pathogenic germs and viruses.

Officials say, however, that the lamp can be dangerous if improperly used. Ultra-violet rays are very potent and the eyes and skin should be shielded from direct exposure when the lamp is in use.

It is important, they caution, that the lamp be used only in fixtures that are properly designed and correctly installed. Fixtures may be obtained from



Just to
remind you

When you're all tied up in the biggest war ever, it's easy to forget another, less demanding war.

Hence, we'd like to remind you of another war you're in—the war of the Christmas Seals against tuberculosis.

This war has been going on a long time. Its start was probably the Big Event of 1907. That year, this country took up the Christmas Seal inspiration of Einar Holboell, a Danish postal clerk.

Since then, at one time or another, almost everybody has bought Christmas Seals. Nearly everybody has learned what their war on tuberculosis means. Nearly everybody knows which side he's on.

So we'd like to remind you of the Christmas Seal sale, which is now on and will run through Christmas.

We'd like to remind you that Christmas Seals are the sole support of the National Tuberculosis Association and 2500 affiliated associations which fight on humanity's side.

May we remind you, too, that this war still has to be won. Although four million lives have been saved, although the TB death-rate has been cut 75 per cent, tuberculosis remains an unbeaten enemy.

Since Pearl Harbor, tuberculosis has killed 145,000 civilians—slowly, meanly. Since Pearl Harbor, more Americans in the war-age bracket have died of tuberculosis than of Nazi-Jap malice!

May we remind you, too, that many customary purchasers of Christmas Seals are away. They're away—fighting that other war. So there's need that you do your part and something extra—for their country and yours.



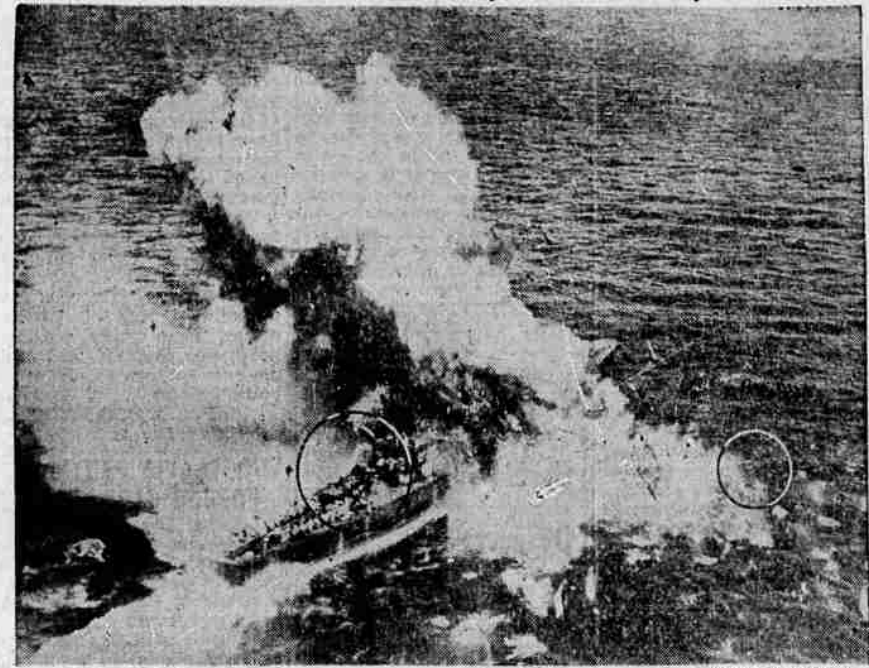
STANDARD
OF CALIFORNIA

They Led Destroyer in Epic Fight



Naval officers who commanded one of three U. S. destroyers, part of tiny but heroic force that took on a Japanese fleet of four battleships and five heavy cruisers bent on crushing Leyte landing in Philippines, are pictured here on their arrival in San Francisco, where their ship will undergo battle repairs. Left to right: Lieutenant (jg) Max Thelen, USNR, Berkeley, Cal.; Lieutenant R. F. Newsome, USNR, McKinney, Tex.; Commander Amos T. Hathaway, USN, Bakersfield, Cal., destroyer shipper; Lieutenant Edwin Bobb (MC), USNR, Wichita Falls, Tex., and Lieut. Comdr. W. L. Carver, USNR, executive officer, Atlanta, Ga.

Sudden Death Strikes Japanese Destroyer



This dramatic photograph shows the almost incomprehensible might of an aerial bomb, dropped at must-head level by an American B-25 Mitchell bomber on this Japanese destroyer escort snaking desperately through the waters of Ormoc Bay, Leyte. A second bomb (circled, left) is about to hit amid the stack. The body of a Japanese crewman (circled, right) hurries through the air hundreds of feet from the doomed ship. U. S. Navy photo.

reputable manufacturers. General Electric makes only the lamps itself.

In an infants' ward of a Toronto hospital, 39 per cent fewer babies developed infections in rooms protected by ultra-violet germicidal units than in those without the lamps.

At The Cradle in Evanston, Ill., doctors reported a 90 per cent reduction in the spread of upper respiratory infection among infants in germicidal equipped cubicles as compared with those in ordinary cubicles.

Sterilizes Water
The lamp is effective for the disinfection or sterilization of water, too. This can be accomplished by the direct application of germicidal energy to the water or as it flows through a tank wherein the depth and rate of flow can be controlled.

Thus, it can be applied to sterilization of small containers of water for surgical and drinking purposes. No taste or odor is added to water by its use.

The lamp also can reduce spoilage in the handling and storage of meat. Exposure to the ultra-violet rays reduces bacterial growth on the meat surface.

WALK TO WORSHIP FORCED BY STRIKE

Salem, Ore., Dec. 4.—(U.P.)—Salem church goers were left waiting at the curb Sunday morning while city bus drivers staged a sit-down strike because of a grievance against the local manager of the Oregon Motor Stages, V. D. Leek.

Drivers claimed that Leek has been domineering and arbitrary in his attitude toward his employees. Bus service was resumed at 1:15, after the drivers had agreed to submit their grievances to the federal conciliation board. The striking employees made it plain that no question of wages or hours was involved in their grievances.

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Comet of 1882, Brightest in Past 150 Years

By J. Hugh Pruett
Astronomer, General Extension Division, University of Oregon
Around 1600 A. D., a German wrote: "Comets are formed by the ascension from the earth of human sins and wickedness which develop into a kind of gas that is ignited by the wrath of God."

Erroneous surely this Teutonic theory, else our night skies would now be sizzling and flaming with the most horrible of these portents of divine indignation. Conversely, at times when earth's children are most circumspect, such objects span the heavens with long, luminous tails, as in 1882 when there appeared the most spectacular comet seen any time during the past 150 years.

An attractive painting of this great comet of 1882 was recently presented to the present writer by Mrs. Cora M. Andrews, an artist of Eugene, Ore. Especially prized is this for it was painted by Mrs. Andrews a few weeks ago, shortly before she had reached her 84th birthday. The artist made a copy of a painting done in her younger days when this celestial visitor was a vivid part of her memory of those pre-dawn skies above the trees and fences and buildings of snow-covered farmlands in northwestern Iowa.

This splendid comet was officially discovered in the daytime on September 11, 1882. Although then very near the sun, its brilliance made it easily visible. On September 17, during a few hours' time it crossed the solar disk, remained a little while on the eastern side, then reversed direction and passed behind the sun to reappear on the western side. During this daytime dash at 300 miles a second, the comet almost grazed the sun. This wild dash around the sun produced terrific strains. A huge sunspot with intense magnetic disturbances appeared immediately. The nucleus of the comet's head was broken into four pieces which moved on in a line.

But the real grandeur of this magnificent comet became evident by late October when it was so far separated from the sun as to be seen in the dark eastern sky before dawn. The filmy tail, widening as it streamed back from the star-like head, extended over a long arc of the heavens and was visible to the unaided eye for six months and three months longer through telescopes.

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STOCK MEN LEASE PORTION OF CAMP

The Antelope Stockmen's association, P. H. McCurley, secretary, reports it has leased approximately 22,489 acres of land for grazing purposes, lying in the Camp White military reservation. Public notice has been published warning all persons not members of the association to remove any cattle, horses or sheep now on the land.

Approximately 1,080 acres of the leased land are in the Incinerator area, 360 acres in the Igloo area, the balance being in the military reservation.



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Creomulsion relieves promptly because it goes right to the seat of the trouble to help loosen and expel germ laden phlegm, and aid nature to soothe and heal raw, tender, inflamed bronchial mucous membranes. Tell your druggist to sell you a bottle of Creomulsion with the understanding you must like the way it quickly allays the cough or you are to have your money back.

CREOMULSION
for Coughs, Chest Colds, Bronchitis

ALFALFA FOUND TO BE HIGH IN VITAMIN UNITS

Lincoln, Neb. (U.P.)—Alfalfa, once considered only a feed product for poultry and livestock, has emerged from the ugly duckling class, according to a report by Nebraska's agricultural college, and now is termed an essential ingredient in baby foods, vitamin pills, breakfast food and candy.

Frank W. Bower, national health authority, in his book, "The Business of Eating," advocates green alfalfa leaves for salads and soups. Only one other plant is richer in vitamin A, he said, adding the greens also provide B-complex and vitamins C, D, E, and G. He says that alfalfa currently is used as a bountiful source of vitamin K.

A national drug manufacturer classified alfalfa meal with fish meals in vitamin content, and a candy company advertises its products as containing the glamorous green.

According to an advertisement by a purveyor of vitamin pills, 14 of 16 body minerals are found in alfalfa, whereas only a portion of these remain in milk produced by alfalfa-fed cows.

Prevents Gray Hair
A manufacturer whose breakfast food contains alfalfa leaf meal said carotene in the product prevents gray hair and an author recommended that city dwellers plant six-foot patches of the erstwhile forage to insure a supply of salad greens.

Nebraska agricultural experimental stations have conducted investigations of alfalfa for the last 40 years. It was only recently, however, that any check was made of its food and feed possibilities.

War Ups Prices
Wartime demands made growers more conscious of the quality of the plant, college officials said. Increased needs have upped the price approximately \$8-\$10.50 a ton, and dehydrating plants sell the meal for about \$24-\$64 more a ton than previously.

Dehydrating alfalfa advocates predict that after the war continued demand for the product

Monday, Dec. 4, 1944

MEDFORD MAIL TRIBUNE—THREE

will necessitate construction of additional factories.

BAILEY LEAVING SOON FOR PRISON

Fred Alva Bailey, convicted of first degree murder, with a jury recommendation of life imprisonment, and sentenced to that period last Friday, will be taken to the Salem prison in the next day or two, Sheriff Syd I. Brown reports. Bailey, 27, a San Quentin prison camp escapee, was tried for the slaying of Ira Clyde Carman last September 3. Bailey admitted hitting Carman with an auto jack solely for the purpose of robbery, and with no intent to kill.

Testimony offered at the trial by the state showed Bailey started his crime career when 14 years old in Marion, Ind., and was involved in several tilts with the law.

The sheriff's office reports that since sentence was passed Bailey has been cheerful and is confident of release within six or seven years, judging by letters. Since the conviction he has been denied visitors and gifts.

Daily Weather Report

Forecasts
Medford and vicinity: Variable cloudiness with occasional showers tonight and Tuesday; continued cool tonight.

Oregon: Cloudy tonight and Tuesday; little rain west of Cascades and occasional light showers or snow flurries north portion; little change in temperature.

Local Data
Temperature a year ago today: Highest 43; lowest 37.

Total monthly precipitation .06 inches. Deficiency for the month 31 inches.

Total precipitation since September 1, 1944, 5.59 inches. Excess for the season .92 inches.

Relative humidity at 4:30 p. m. yesterday 72%; 4:30 today 88%.

Tomorrow
Sunrise 8:24 a. m.; sunset 5:40 p. m.
Boise 40 20

Boston	28	30
Chicago	41	32
Denver	44	29
Eureka	54	43
Havre	39	23
Los Angeles	63	38
Medford	46	46
New York	36	24
Omaha	36	33
Phoenix	55	34
Portland	47	42
Reno	47	20
Roseburg	47	40
Salt Lake	42	24
San Francisco	33	42
Seattle	49	44
Spokane	41	38
Washington, D. C.	50	38
Yakima	40	33

The United States aircraft industry produced 153,061 planes in the three years ending December 31, 1943.

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FOR CONTINUING RELIEF, rub VapoRub on throat, chest and back at bedtime... the comforting action invites restful sleep and keeps on working for hours.

**VICKS
VAPORUB**

"I'm not a shipping clerk... or a wrapper...
or a salesman...
But these days all store people have
to pitch in and help...
That's why I say..."

"Be thoughtful
when you do your
Christmas shopping"



IN ALL DEPARTMENTS this year store people face problems of personnel, supply and delivery. With these difficulties plus the usual holiday rush they are working harder than ever to make your Christmas shopping successful.

HELP THEM ALL YOU CAN. WON'T YOU? Buy at less busy hours. Carry home as many purchases as possible. Make a detailed shopping list to save time at the counters. Remember to shop early and to shop patiently.

MOST STORES speed their service through the use of National Cash Registers located in convenient positions in every section. By letting Nationals take care of their sales transactions, they are able to give more people better service.

DURING the holiday season—and all through the rest of the year—Nationals are on the job, speeding service, protecting money, providing valuable records.

And in every transaction there's satisfaction on both sides—for National's fast accurate service protects user and public alike.

For months, store people have been working out ways to make your Christmas shopping quick, easy and pleasant.

Let's help them all we can. Let's put the Christmas spirit into our shopping this year by being thoughtful... by shopping early and shopping patiently.

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