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U. S. Inventors Still Hold Lead

Yankee Genius Again Proves In War It Is Greatest Force in World.

WASHINGTON.—American inventive genius still is as great a force in the world as ever. In fact, an even greater force. Scientific men are pointing out that this was convincingly demonstrated by the war just brought to a victorious end, says the Chicago Herald American.

The tradition of American fertility in devising machines to make work easier and to produce more and better goods goes back to the very roots of the nation.

Since the days of Benjamin Franklin down through the years, one Yankee inventor after another has given mankind a mechanical boon it never had before. Eli Whitney, Samuel F. B. Morse, Alexander Graham Bell, Thomas A. Edison, the Wright brothers are only a few of the names that rang around the globe.

Germany Outstripped.

Then came World War II, and for a time it looked as if the palm for inventiveness had passed into German hands. But skilled as the Nazis were in contriving means for speedily crushing their neighbors, the tremendous events leading to American triumph on two fronts proved conclusively that Yankee mechanical genius had by no means diminished.

Not only did the ideas for outstanding inventions that resulted in victory originate in American laboratories and workshops, but indications clearly point to American leadership in the current race to reconquer war weapons and industries to the uses of peace.

Dramatically at the head of the list of new war inventions is, of course, the atomic bomb.

For years, scientists sought to release the vast energy known to be locked in the atom's nucleus. It remained for an American, Dr. Ernest O. Lawrence, 30-year-old physicist at the University of California, to show how to release that force.

Though the atomic bomb sealed the fate of Japan, the Nips were already groggy from American blows. The greatest single mechanical factor in overwhelming both the Nazis and the Japs is, by general consent, radar—radio detection and ranging.

Radar and DDT.

Credit for radar belongs strictly to America and goes back to 1922, when Dr. Albert Hoyt Taylor, chief consultant and co-ordinator for electronics at the naval research laboratory, Washington, D. C., and Leo C. Young, an associate, made some experiments with the use of short waves for communication with airplanes.

They discovered that ships in the Potomac river distorted their radio signals. They were keen enough to recognize that they had come upon an epoch-making discovery—that here was a means by which the U. S. navy could detect enemy warships at considerable distance.

The rest is history. Other nations, following our lead, likewise developed radar instruments, but no country brought the equipment to the peak of perfection arrived at in this country.

Another marvel—the peerless bombsight, named for its inventor, Carl L. Norden—convinced all our enemies they had a good deal to learn in the way of war-making from this democracy.

The Norden bombsight is so precise that U. S. bombardiers found it possible to spare churches, hospitals and non-military buildings while pulverizing everything else in their immediate neighborhood.

That extraordinarily effective insecticide, DDT, which saved millions of American servicemen from malaria, typhus and other insect-borne diseases, already has been applied to civilian needs.

5,000,000 Lost Tons of Ships Cost War, Says Japs

YOKOHAMA, JAPAN.—Japan lost more than 5 million tons of shipping during the war and this "decisive defeat" in sea borne supply warfare was a major factor in her total defeat, the Nippon Times reported recently. Japan's present shipping tonnage totals 285,000 tons, comprising 747 vessels over 100 tons and including all vessels under repair or stranded at sea.

War Doubles Per Capita U. S. Income

Commerce Department Gives Result of Survey.

WASHINGTON.—Per capita income in the United States virtually doubled during the war.

The commerce department said so in a survey of income payments to individuals during the years 1940 through 1944.

The survey showed per capita income for individuals jumped from \$575 in 1940 to \$1,117 in 1944, or an increase of 94.3 per cent. The figures were reached by dividing total income by the civilian population.

"A striking war-period development," the department noted, "was the partial reduction of the broad geographical differentials in per capita income."

What happened was that, because of war activities and population shifts, per capita income gains spurted more sensationally in so-called low-income states than in high-income states.

"The net effect," said the department, "was that from 1940 to 1944 the over-all per capita income of the 32 low-income states advanced from approximately one-half to three-fifths of the comparable average for the high-income states."

The trend was for income and the Southeast, Southwest and West to come closer to the income levels of the East and Midwest.

Lessons of War on Fire Fighting Help in Peace

WASHINGTON, D. C.—Fire fighting techniques developed by the navy during the war may revolutionize postwar civilian fire fighting organizations. Naval methods were credited with saving uncounted lives and millions of dollars' worth of property, including such vessels as the aircraft carrier Franklin, Bunker Hill, Saratoga and Ticonderoga.

The navy said recently that the practical results of its techniques promise to save billions of dollars for property owners in years to come. All applicable details of its equipment and methods, the navy said, will be given freely to civilian fire departments, industrial firms, fire protection and insurance organizations. Already a large percentage of the members of the Boston fire department has been trained in navy methods.

In addition to fog nozzles and foam, navy developments include a portable oxyacetylene cutting outfit, permitting quick cutting through of steel decks and bunkheads, and an oxygen rescue breathing apparatus which generates its own oxygen and removes impurities from exhaled air.

The mart was opened by the Berlin city administration to help curb the black market. An admission fee of one mark, or 10 cents at the military exchange rate, is charged.

Open Second Hand Market For Civilians in Berlin

BERLIN, GERMANY.—An Allied approved second hand mart for civilians opened on Brunnenstrasse recently and more than 3,000 Berliners jammed it with every conceivable kind of used article for barter or sale.

The mart was opened by the Berlin city administration to help curb the black market. An admission fee of one mark, or 10 cents at the military exchange rate, is charged.

On one bicycle was a sign: "In exchange for camera, automobile rug or cloth for suit."

Gray haired women with dresses reaching their ankles offered opera glasses.

Three teen age girls put up several of their party dresses for barter for walking shoes. Other items included door hinges, water color paints, shoes, handkerchiefs, grandfather clocks, handbags, a carpenter's saw, woolen yarn, cigarette cases, draftsmen's tools, phonographs and a radio amplifier.

War Cost Army 737,714 Tons of Cargo at Sea

WASHINGTON, D. C.—The war department reported that 737,714 ship tons of army cargo were lost at sea during the war as the result of the sinking or damaging of 148 vessels outbound from the United States.

The total included 200,058 tons from the sinking of 31 vessels and the damaging of two others in the Pacific and 537,656 tons through the sinking of 105 vessels and damaging of 10 others in the war against Germany.

These figures, the army emphasized, cover only losses on vessels of American and foreign registry sailing from this country. The army calculated the losses amounted to 62 tons out of each 10,000 tons shipped from this country from December, 1941, to August 1, 1945.

South America's Johnny Applesed

South America has a variation of the North American story of Johnny Applesed, but in Paraguay it was oranges rather than apples that were planted. During the Paraguayan war, General Lopez commanded that oranges be planted on all estates. He also encouraged people, whenever they ate an orange anywhere in Paraguay, to plant the seed. In Brazil, large scale commercial production of oranges has developed, and to a lesser extent in Cuba, Mexico and Argentina.

Balloon Cloth
Balloon cloth is all that its name implies, the cotton fabric perfected early in the war for covering the barrage balloons used in the defense of strategic cities from air attack. The need for these balloons diminished and the fabric, a very fine cotton fabric woven of long staple cotton, was diverted to civilian needs. It is variously finished and in the hand is smooth as silk, and wears with about the same resistance to creasing. When used for dresses, the fabric is usually printed.

New Types of Electric Lamps
Effects of startling developments resulting from wartime electrical research and engineering is being felt in the lamp industry. Among these new articles are the sunlamp, which can be screwed into any socket operating on standard alternating current; the heat lamp, a home-use adaptation of the infra-red lamps used in industry; the sterilamp, which gives ultraviolet radiation of a wave length deadly to airborne bacteria.

Federal Inspection
A meat plant that operates with federal inspectors on the job must comply with high standards for clean, wholesome food that is accurately labeled. Department of agriculture regulations for such a meat packing plant deal with practically everything from the aprons the workers wear to the wrapping and labeling of the meat.

Farm Roads
America has 2,400,000 miles of rural roads serving 6,000,000 farms, but only 45,000 miles have a high type pavement and 99,000 miles have a low-type bituminous surfacing. The rest of these country highways—2,256,000 miles—have a non-treated surface, are merely graded and drained, or are simply trails.

Storing Rugs
Roll rugs and carpets on a strong pole, sprinkling camphor crystals, or similar moth-preventives, in as you roll. Wrap in papers, sealing any portions where moths might enter. Put them in a cool, dry place, preferably standing on end. Be sure they are thoroughly clean before storing.

Drive on Left
All Britain's important colonies and dominions except Canada follow the mother country's lead and drive on the left. The Philippines, which had conformed to the general far east custom of driving on the left, switched to the U. S. style upon liberation from the Japs.

Rejuvenate Sewing Machine
To clean a neglected sewing machine which is gummy with oil and dirt, use kerosene and a brush. When clean, wipe the parts dry and let the whole machine air for 24 hours. Then oil it.

Rubber Gloves
If you wear rubber gloves to protect your hands and nails but find the nails pierce the finger end just turn the glove inside out and paste a piece of adhesive tape over each finger end.

Unmarried Soldiers
There are no war widows of the Nayar soldiers of India because these men are not allowed to marry. Nayar women are ritually married to any man who happens to be home on leave.

Rinse Milky Glass
Do not plunge a glass in hot water if it has contained milk. It makes the glass very cloudy, so first rinse the glass in cold water and then wash in hot, soapy water.

Finish Faster
Self-fed hogs usually finish for market somewhat more quickly than hand-fed hogs, yet they require no more feed for each pound of gain.

Use Less Feed
Largely because of improved breeding and feeding practices, the production of a dozen eggs now takes about a pound of feed less than it did a half-century ago.

Difficult Stains
Don't try to remove rust stains. That's a job for the professional cleaner, as is also the removal of stains from velvet or metallic fabrics.

Seed Being Rushed to Europe, Asia to Avert Famine Threat

UNRRA Shipped 38,000 Tons Since Early Spring

By L. F. Stone, Extension Marketing Expert.

First harvests from UNRRA (United Nations Relief and Rehabilitation Administration) seeds are being reaped by European farmers this fall, for despite early difficulties of shipping it was possible to send some seeds in time for the 1945 spring planting. A shipping program has been drawn up to meet Europe's 1946 spring needs and an initial program has been started in China. From the multiplication of UNRRA seeds will come seeds for the first plantings in Jap-free soil.

The 1945 fall and winter seed shipping targets for Europe are mainly wheat, rye, barley, oats, vetch and alfalfa. Data from current shipping reports indicate the amounts, varieties and destinations of the seeds included with UNRRA cargoes now going forward from the United States and Canada.

For instance, on July 2 the Chief Osceola left Baltimore for Constanza with 70,000 bags of rye seed for Czechoslovakia. The following day the Aleksandar I cleared Montreal with 934 bags of alfalfa seed for Yugoslavia, and the Tamara left St. John, New Brunswick, for Piraeus, Greece, with 905 bags of alfalfa seed. The Nicholas Labodie left Houston, Texas, for Constanza, July 8, with 15,420 bags of wheat seed and 1,166 bags of rye aboard to be routed to Czechoslovakia along with other UNRRA materials and supplies.

Europe Exported Seeds Before War.
In prewar times, Europe was not only self-sufficient, but a producer of an exportable seed surplus. This was true for cabbage, cauliflower, broccoli, red clover and many other seeds although seed corn and perennial grasses were imported. But the destruction of war forced constant switches in the normal economy upon the occupied countries. At the end of hostilities such seeds as the edible legumes—beans and peas, most of the vegetables, wheat and other cereal seeds were needed.

Many areas in Europe were also short on grass seeds to rebuild neglected pasture land, seeds to grow animal feed and seeds for industrial crops. Forage legumes, alfalfa, the clovers—red, alsike, and white—and turnips for animal feeding are called for. Seeds to grow rape and hemp for oil, and flax for fiber are also needed.

Shortly after UNRRA was formed by the United Nations in November of 1943, these estimates were turned over to the Standing Technical Committee on Agriculture. The experts of the committee, representing both the invaded and the supplying nations, used them as their starting point for planning rehabilitation through the importation and management of a seed supply. As later information came to light the early goals were modified. The time of year when countries were liberated also entered into UNRRA's calculations. Since the military is responsible for the initial shipments, the army would undertake to distribute supplies in countries ready to plant while military governments were in charge.

Vegetables Given Priority.
In selecting seeds to be sent, the committee gave first emphasis to seeds that grew food for direct human consumption. Vegetable seeds came first, then potatoes and cereal. Secondary consideration and shipping space went to seed that would produce forage crops for areas where the restoration of the

livestock feed supply is considered urgent. The tonnages shipped and distributed to date reflect this priority. Seeds dispatched for 1945 spring planting were largely beans and peas from Canada and the United States, and other vegetable seeds from the United States and the United Kingdom. Food grown from these seeds is now furnishing some of the protective elements so badly needed in the diets of most of the people of the world today.

Some of the seed distributions in the liberated countries were carried on jointly by UNRRA and the military. As the military governments withdrew the remaining seed stocks were turned over to UNRRA. Seeds from this source were distributed in the Balkans. Some of the seed held for UNRRA in the U. S. for use last spring in case of an earlier V-E Day were then channeled into the domestic market.

For instance, vegetable seeds to replant the irrigated truck lands near the city areas in Greece were first made available through military supplies and later through UNRRA shipments. Vegetable and root crop seeds from plants grown in England were shipped this spring to Czechoslovakia. Root crop seeds were included with the first UNRRA cargoes for Poland.

Surplus Stocks Distributed.
One objective of the UNRRA seed program is to re-establish a flow of seeds within Europe from surplus pockets to areas of need. Military authorities found that Germany had been stimulating seed production in some of the occupied countries. Where crops were not destroyed these reserves are now made generally available.

Seeds of French origin are going to Holland and Belgium. Danish seeds may flow across Danish frontiers. Italy may have a surplus of seeds which can be routed to other countries. Seed potatoes from Cyprus have been sent to Greece. A small portion of the crops raised from the 1945 shipments of seed is being set aside to produce the seed for next year's planting.

The breakdown of interior transportation in the liberated countries as a result of German occupation is a complicating factor in the seed situation as it is in nearly every other relief and rehabilitation program. Every seedman who has led the fight in his own community for better farm to market roads can understand the situation. Roads and waterways have been bombed. Civilian motor vehicles have disappeared, carts have been wrecked and draft animals have been stolen and slaughtered. Much of this was deliberate sabotage on the part of the retreating Nazis. Even when there

"GAY GADGETS"

Associated Newspapers—WNU Features.

By NANCY PEPPER

MEDAL MANIA

Lets see how quickly you gals can move in on a High Fashion.

Seems the smart fashion leaders in New York and in Hollywood are wearing costly antique medals for decoration on all kinds of clothes. Well, who says they have to be antique? See if your father has some old medals (wasn't he wading champion or something in his youth?); see if your O.A.O. will part with the medal he won for track. Pin them to bits of colored ribbon and wear them instead of your trickier lapel gadgets. If you have a lot of medals, you can pin them to a broad ribbon worn diagonally from one shoulder and tucked into your skirt belt. It's a fad!



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Hula Shake—It's a malted milk with pineapple in it. Sounds dead-ly, but they tell us it's dreamy.

Jeep Special—Glass of water and a defense stamp. That's our favorite drink at the soda fountain. We hope it's yours, too!

SCHOOL DAZE
Pupil—Should you be blamed for things you haven't done?
Teacher—No, that wouldn't be fair.

Pupil—Thanks, I didn't do my homework for today.

Teacher—What happens when the human body is immersed in water?
Pupil—The phone rings.

Teacher—Order, please.
Pupil—Double chocolate malted.

664 Questions
Why are Boy Scouts Dixy?
Because they do so many Good Turns.

Why did the Little Meron hit his gal friend in the eye?
So he could go out on a Blind Date.

Why should you take a frog and a porcupine shopping with you?
Because frogs have greenbacks and porcupines have points.

Sad Sonnets
Early to bed,
Early to rise,
And your gal will go out
With six other guys.

They Know It's Loaded



When crossing fences, let one member of the party climb over first without a gun. Hand all guns over to him, being sure to "break" the breech before handing over. Be sure barrel and action are clear of obstruction before shooting.

High School Crowd Taught How to Drive In Safety Program

Anticipating a teen-age rush to used car lots for "jalopies" discarded by the motor public when new model automobiles are placed on the market, state and local school officials are accelerating programs in high school driver education.

Termed "behind the wheel" programs, those in operation or planned for the near future are designed to teach high school students to drive safely on the public highways.

Some 5,000 high schools throughout the country now have behind-the-wheel programs, according to information to the American Municipal association, with six states apparently well in the lead in developing such programs: North Dakota, Iowa, California, Wisconsin, North Carolina and Illinois. In each of these six states, at least 200 high schools offer driver education courses.

Delaware includes behind-the-wheel training in 27 classes in 18 high schools. Only six high schools in the state remain without the state-wide driver education program because of wartime lack of personnel and equipment.

The West Virginia board of education has approved the proposed course of study in driver education prepared by the West Virginia driver education committee and included it in the standard state high-school curriculum.

Minnesota held a three-day education institute at the University of Minnesota this summer through cooperation of the university and state departments responsible for traffic education. The summer institute followed three regional institutes held in May.

One of the difficulties involved in behind-the-wheel training in North Carolina has been solved by using the state school buses for training purposes. Thousands of students have already learned the principles and practice of safe driving through this expedient.

Something to Keep the Ladies Warm



This armload of white fox pelts being displayed by an employee of a New York auction house is worth plenty at present prices. Fur coats, always expensive, will be sky-high this year, dealers say. Most skins now used come from Canada and the United States. The highest-priced for this season is called silver-blue platinum mink. There are only enough of these rare pelts in the world to make up ten coats. An American mink farmer developed the color phase by careful interbreeding.

Minute Make-Ups

By GABRIELLE



Try to manage a visit to the chiropodist for the removal of callous spots on your toes and soles and for nail trimming. Even if your feet are free of blemishes you will find a professional foot massage wonderfully refreshing. It is a good idea, too, to massage your feet yourself before putting on your shoes.

Editorial—WNU Features.