

PROBLEMS OF WAR SOLVED BY EDISON

Evolved a Whole String of Valuable Inventions and Devices.

NEW YORK, Nov. 29.—"What did Edison do in the war?" is a question answered by Captain Lloyd N. Scott, liaison officer, in an official history of the work of the naval consulting board.

A whole string of valuable inventions and devices was evolved by Mr. Edison himself as head of the naval consulting board. In fact, Mr. Edison took the presidency of the board on the organization work, but should be free to employ his time in working out inventions. He tackled the problem of detecting submarines by sound, and spent months working on the problem.

His idea was that if a device could be perfected whereby a ship could hear the sound of a torpedo as soon as it was fired from a submarine, and then quickly alter its course, it would be as effective as destroying the submarine. At that time listening devices on moving ships had failed, largely because they were towed astern, where the rush of water, and the noise of the ship's propellers interfered with the listening device.

Listening Device Success. Mr. Edison constructed a listening device that projected a listening horn in front of the bow of the ship. It was found to work satisfactorily in a rough sea, with a ship's speed at a full speed of fourteen knots.

With this device there would be no difficulty whatever in hearing a torpedo more than 1,400 yards away, and this is far beyond the effective distance at which a torpedo can be launched from a submarine. The noise from a torpedo is very piercing and peculiarly distinctive, so much so that in the course of some of Mr. Edison's experiments at Sag Harbor, Long Island, where practice torpedoes were launched, the telephone connected with the listening apparatus on the torpedo could be plainly heard.

In addition to the listening device for distribution of shipping so as to give U-boats more ground to cover, Mr. Edison experimented with collision mats to stiff the holes caused in the side of a ship by the concussion of a torpedo, and he also devised a system of conveying a merchant ship out of a mined harbor.

Perhaps his most original contribution to the subject of protecting the coast from the submarine attack was a plan to patrol the coast from Nova Scotia to Florida with a chain of submarine buoys to be used as lookouts or sentries. Each buoy was to be manned by three men. The buoy could remain on the surface or submerge, and could be equipped with sound-detecting apparatus as well as wireless.

On detecting a submarine or enemy ship the buoy would flash the word to the nearest destroyer or coast patrol ship, and in this way prevent the invader from getting in close to shore.

Another of Edison's inventions was a special sailing light for convoys. It was so constructed as to be visible to the lookout men in the mainmast of other ships in the fleet, but invisible to the submarine on the surface of the sea.

Underwater Searchlights.

An ingenious application of the smoke screen was also worked out by Mr. Edison. This was a plan for smudging the skyline three or four miles behind a fleet in action, so that the enemy warships would have no clear background for their gunnery. In other words, the skyline smudge would produce a state of low visibility for the enemy, but would not bother our own ships as it would not be between them and the enemy.

Experiments by Mr. Edison with underwater searchlights did not progress very far, but he did invent a light which penetrated sea water for 50 feet and enabled persons to read print at that distance. He also worked on a type of oil cloud shell to blind an enemy at sea, perfecting a projectile which would penetrate water and explode, setting off an underwater mine or in operation automatically to overcome the roll of a ship, this to facilitate gun pointing at sea in rough weather.

Among other things to which Mr. Edison devoted his attention were the means of obtaining nitrogen from the air, a hydrogen gas detector for submarines, masks to protect methanoid observers from the fumes of the smokestack of a ship, a turbine head for projectiles, a plan for mining Zebrunge harbor, a mirror signal system for warships, a direction indicator for a sound ranger for detecting concealed enemy guns, an extension ladder for the lookout man on a shipboard, and a reacting shell, otherwise a "non-dud" shell.

CHARITY UNCOVERS BONAFIDE GENIUS

Italian Boy Who Played For His Meals Real Virtuoso.

New York, Nov. 29.—In the Lombard city of Milan there is a little restaurant called "La Grande Italia" where the cookery is excellent and the wine better still. On Christmas eve last the night grew merry at "La Grande Italia." A pleasant company was gathered, musicians most, from La Scala and the conservatory.

At the head of the principal table sat Maestro Bavagnoli, who directed the orchestra at New York's Metropolitan a few years ago. Beside him was Signor Ferrario, the host of the establishment, says Prosper Buranelli in the New York Herald.

Outside a shabby youth stood and peered through the door. He was slender, pale and blond. He had a small chin, a short nose and a wide forehead. His years were 19 or nearly that. The night was cold, and he shivered in his thin coat. Finally he walked hesitatingly into the restaurant. Signor Ferrario confronted the stranger. The boy stood full of dignity.

"I am Vasa Priloda, a native of Bohemia," he said. "I am the first violinist in the world. I have eaten an apple and a slice of bread the last two days. It is Christmas eve and I am hungry. Give me something to eat and I will repay you by playing for you."

Signor Ferrario laughed. He grinned at the first violinist in the world, but the lad was hungry. "You need not play. But you shall eat," he said.

"I will not eat unless I play. I am no beggar," Vasa Priloda replied placidly.

WOMEN GO HUNTING.

MERCER, Pa., Nov. 29.—Hunters' licenses have been issued to fifty women, ranging in age from 15 to 70 years. Hunters' licenses to date have been issued to over 5,000 persons to hunt in Mercer County.

CURED OF INSANITY.

TRENTON, N. J., Nov. 29.—The report of Dr. Henry A. Cotton, medical director of the Trenton State Hospital, shows that two patients have been cured of insanity by pulling their teeth. The removal of infected teeth of both patients, who were women, returned their mental conditions to normal.

Santa Claus Startles London With One of the Greatest of All Christmas Selling Sensations

Our Annual 24-Day Wonder Shoe and Slipper Sale



Today we commence one of the greatest and grandest money-saving Christmas Shoe and Slipper selling campaigns—a 24-day wonder Christmas sale, altogether different, better and more colossal than any we have ever held. The entire stock is included in this mighty slaughter—every Shoe sacrificed—nothing reserved—all must go. High prices surrender and economical buyers during this big sale will triumphantly fill their Shoe, Slipper, Hosiery and Traveling Goods wants at marvelous values and matchless offerings. The purchasing power of your dollars will be a happy surprise to you, for giant values at dwarf prices are greatly in evidence.

Read this tempting list of rare bargains; they will induce the most prudent to buy. The store is filled throughout with the brightest and best Gift Footwear, displayed on racks and bins, all marked in plain figures. Remember the early bird. Grasp the opportunity.

A Mighty Slaughter That Will Create a Riot on High Prices

LADIES' FINE SHOES AT WONDERFUL SAVINGS

LADIES' HIGH-GRADE MANY OTHER BEAUTIFUL PATENT SHOES, plain and drop styles, clearing for sale. Values up to \$4.98. Ladies' Gunmetal Patent Leather Shoes, with cloth tops. Values up to \$4.98. Ladies' Serviceable Shoes, for street wear. Values up to \$4.49.

Classic and Other Reliable Makes of Shoes for Misses and Children, All Styles and Leathers, Every Pair at Greatly Reduced Prices. Don't Fail To See These.

SPATS AND HOSE

LADIES' BEAUTIFUL SILK HOSE, in plain and drop styles, fancy colors and mixtures, neatly boxed for Christmas. Ladies' Fine Wool Rib Hosiery, attractive colors, neatly boxed, for \$2.85 and \$2.19. Ladies' Extra Fine Quality Past Black Cotton Hose, elastic tops, big special at 85c and \$1.00.

Many Big Specials in Men's Fine Hose.

TRAVELING GOODS greatly reduced for this sale—Trunks, Suitcases and Club Bags. One of the finest assortments to choose from. Club Bags and Suitcases initialed free.



Wonderful Values in Gift Slippers For Men and Boys

MEN'S WOOL CLOTH PLAID SLIPPERS, all sizes, \$1.98. Men's Black and Brown Leather Slippers, alligator pattern, \$2.75. Men's Plaid Wool Cloth One-Buckle Slippers, Arctic, \$2.65. Men's Black and Brown Kid Slippers, \$3.75. Men's Grey Felt Slippers, extra leather soles, very nifty. Sale price, \$2.75. Men's Fancy Plaid Wool Cloth Slippers, leather covered, felt soles, British made, \$2.35. Men's Black and Brown Leather Slippers, leather covered, felt soles, \$3.25. Men's Spats, brown and fawn, finest quality felt. Special at \$1.98. Men's Heavy Wool Mixtures, Foxed Felt Shoes, \$3.75. Boys' Chocolate Kid Slippers, \$3.49. Men's Black and Brown Leather Cozy Slippers, buffed leather soles, \$2.25. Men's Spats, brown and fawn, finest quality felt. Special at \$1.98. Men's Heavy Wool Mixtures, Foxed Felt Shoes, \$3.75. 39c 49c 59c.

RUBBERS—We carry one of the finest stocks of Highest-Grade Rubbers for men, women and children in London; also Men's, Boys' and Little Kids' Leathers, Buckle and Lace Rubbers and Rubber Boots at smashing big reductions. Guaranteed No. 1 Quality Rubbers, expertly fitted to your shoes—Men's \$1.75; ladies' \$1.25.

The Whole Store is Ablaze with Christmas Bargains

Sensational Values in Men's Footwear

MEN'S BROWN CALF LACE SHOES, English toes, welted soles. Regular \$15.50, for \$6.95. Men's Chrome Kid Lace Shoes, plain toes, welted soles. A big snap at \$4.98. Men's Black Heavy-Weight Calf Shoes, heavy welted soles, a dandy winter shoe. Regular \$15.50, for \$5.95. Men's All Tan Grain Leather Work Shoes, full stock. \$7.50; special \$5. Men's Finest Grade Brown Calf Lace Shoes, welted soles, McPherson make. Regular \$15.50, for \$13. Men's Fine Quality Brown Calf Lace Shoes, welted soles. "Non-arch" brand. Regular \$15.50, for \$11.50. Men's Brown Calf Shoes, brogue style; full stock. \$12 value, for \$10. Men's Brown Calf Shoes, leather lined, medium rounding toes. Special at \$7.50.

The Knife Has Been Put Into the Entire Stock. No Reserve.

THE PEOPLES SHOE STORE

131 Dundas Street The Store With the Christmas Spirit. 12 Market Square

Choose Your Christmas Gifts From This List at Money-Saving Reductions

SHOES, LEATHER SLIPPERS, FELT SLIPPERS, BOUDOIR SLIPPERS, MOCCASINS, SKATES, HOCKEY SHOES, WORK SHOES, RUBBERS, RUBBER BOOTS, SUITCASES, CLUB BAGS, TRUNKS, LADIES' AND GENTS' SPATS, HOSE, LEGGINGS, ETC. Ladies' Black Felt Slippers, all sizes, 75c. Ladies' Fur-Trimmed Juliets, \$1.98. Ladies' Ribbon-Trimmed Felt Cozy Slippers, all colors, \$1.35. Children's Teddy Bear Slippers, 98c and \$1.19. Corduroy Leggings for Misses and Children; sizes 4 to 7, \$1.40; sizes 8 to 10, \$1.69; sizes 11 to 2, \$1.98.

Stunning Values in Gift Slippers

LADIES' SUEDE LEATHER BOUDOIR SLIPPERS, all colors, \$1.75. Ladies' Plaid Wool Cloth Slippers, felt soles, leather covered, very cozy. \$1.98 \$2.48 \$2.75. Misses' Plaid Wool Cloth Slippers, \$1.25. Children's Plaid Wool Cloth Slippers, 98c and \$1.19. Ladies' Black Felt Slippers, leather soles and heels, \$1.98. Ladies' Fur-Trimmed Felt House Shoes, leather soles, \$2.48. Ladies' Leather Buskins, Strap Slippers and Oxfords, \$1.75.

Some "Overprivileged Boys" Who Entertained "Tough Guvs"

[From Literary Digest.] NEW YORK, Dec. 1.—The scientific social workers came to the underprivileged boys, and the "overprivileged boys." One of them is born with a silver spoon in his mouth and the other, says Ben Hecht, special correspondent of the Chicago Daily News, "with a splinter in his big toe." One of them grows up carefully protected, perhaps too carefully protected, from all the shocks and tribulations that boyhood is heir to. At six he begins to find automobiles a bore, at ten he throws the miniature electric railway out of the window and refuses to waste any time on the silly old Christmas tree. The scientific workers have him tabulated as the overprivileged boy, and he is likely to develop into a bad sort of a citizen if nothing happens to reduce his idea of his own importance. At the other extreme is the curstest ramin, yelling "cheese" when the cop heaves into sight, fighting, swearing, and hunting cats in the alley. He is the hard little egg, the tough guy, quite as likely to come to some bad end as the boy at the other extreme of

CRITICIZES ALLIED CONTROL COMMISSION

VIENNA, Nov. 30.—The allied commission of control is bitterly attacked by the Journal Der Morgen, which charges the body with arbitrary seizure of raw materials not essentially military, and thereby forcing the country to seek credits to replace the seized materials. The industrial rehabilitation has been retarded by these methods, the Journal adds. The commission, Der Morgen further charges, is purposely delaying its work in order that the members and their families may live in Vienna on huge incomes in princely style. It asserts that the "profligate" use of motor cars by members of the commission is enraging and smothering the population. The Journal demands immediate parliamentary action.

WOMAN HEADS TEAM.

BURNS, Ore., Nov. 29.—Since the election November 2 of a woman mayor here, the Burns High School has been seized with the feminine tide of leadership and has chosen Miss June Dalton, manager of the baseball team, and Miss Doregan, editor of the school paper. There are as many boys as girls in the high school student body.

HITS LUMBER TRADE.

CHICAGO, Nov. 29.—Prohibition and Michigan to obtain liquor since the beginning of the dry era were cited as the chief cause for the recent falling off of production in the lumber industry at a meeting of the Northern Hemlock Association.

FARM HAS MOVIES.

CARLOTTESVILLE, Va., Nov. 29.—Aliming to make life on the farm more attractive so that the "lure of the town" will be less strong, John Armstrong Chaloner has erected a moving picture theatre on his 400-acre farm. The new house to solve the shortage of farm labor. The theatre will be free to all farmers and some wives and children within a radius of ten miles.

SPECTATORS' BALLOT.

TOLEDO, O., Nov. 29.—For the first time, it is said in the history of local courts, a police court judge recently passed ballots through the courtroom and asked the spectators to write the verdict on the slips of paper. Of the 34

Our Christmas Shoe Sale Saves You Money, Positively and Absolutely.

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