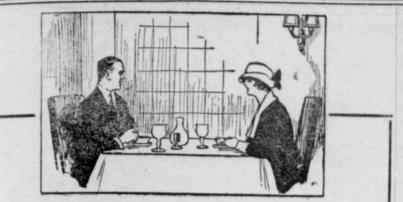
Friday, May 12



Give Your Wife A Holiday

Next Sunday, instead of letting wife get the dinner suggest that she come with you to the Bungalow Cafe for a change. The rest will do her good.

Milk and Cream from Registered Stock only. Supplied by Cottonwood Farm.



Elect IKE PATTERSON

REPUBLICAN NOMINEE FOR GOVERNOR

at the primaries Friday, May 19.

He is a man of rare personality and proved executive ability. briefly, is his story: Isaac Lee Pat-terson was born in Benton County, Oregon, in 1859. Attended country schools and worked his way through Christian College, Monmouth. Became a successful merchant in Salem. In 1894 was elected State Senator from Marion County. In 1898 was appointed Collector of Customs at Portland, by President McKinley; re-appointed by President Roosevelt in 1902.

A Record of Achievement

WHILE he was collector, the business of Mr. Patter-W son's office practically doubled yet he reduced the cost of running his office by \$6,380 a year. Since 1906 has been a successful farmer at Eola, Polk County. In 1919 and 1921 served as State Senator from Polk County. As chairman of Senate Finance Committee led the fight against wholesale salary increase bills and defeated most of them. In 1921 voted against increasing Governor's salary.

Vote for Patterson and Stop this Waste!

Since 1913 State taxes have increased 748.7 per cent! This gross extravagance must be stopped! Mr. Patter-son has pledged that when elected he will make a sub-stantial decrease in your state taxes by efficient and eco-nomical administration. A vote for Senator Patterson is a vote for clean, economical business-like government.



THE TILLAMOOK HEADLIGHT

the wireless telegr

sia.

tested.

service.

Britain and Canada.

to South America.

Spanish radio company formed.

radio stations for 20 years.

lives of 700 passengers.

sent across the sea.

THROUGH THE YEARS Wireless Research Began Long Ago, But Development Has

Been Swift Lately.

Wireless research started many years ago, as far back even as 1827. Even the radio telephone is not a recent perfection; rather it is that introest company. duction to the layman of the human voice and music has suddenly popularized something that wireless men had thought a pastime or amusement. Here is the chronological record of wireless:

1827-It was found that the magnetic discharge from a leyden jar would magnetize a steel needle. 1831 - Electro-magnetic induction

was discovered between two entirely separate circuits by Michael Faraday. 1837-Cooke and Wheatstone of London, England, and Morse of the

United States take out first patent for electric telegraph. 1838-K. A. Steinhell of Munich suggested that a system of wireless telegraphy could be established after his discovery of the use of the earth

return. 1840-Joseph Henry (U. S. A.) produced the first high-frequency electric oscillations, and stated that the condenser discharge is oscillatory. 1842-Wireless experiments were made by S. F. B. Morse by electric

conduction through water across Washington canal and across wide rivers. 1843-A wireless system for trans-

atlantic communication was suggested. 1845-Water was used as a conductdistant radio station. ing medium in wireless experiments

across a wide river. 1849-Intelligible signals were actually sent across a river 4,500 feet wide in India, but the cost was found prohibitive for commercial use.

by wires.

fogs.

of a "coherer."

less experiments.

nine miles distant.

fully operated.

station.

antennae.

1892-An instrument for the detec-

tion of electro-magnetic waves was

1894-A scientist of Berlin signaled

1805-High frequency waves excite

1896-First patent for practical

wireless transmitting system is taken

out in London by Marconi. Afterward,

successful signaling was carried out

over distances as great as one and

terested his cohorts in Marconi's wire-

1897-Marconi establishes communi-

cation between points four miles dis-

tant. Balloons were used to suspend

system before the king of Italy, com-

municating with two Italian warships

The first Marconi station is erected

Marconi demonstrates his wireless

through three miles of water.

curiosity of Senatore Marconl.

the high seas and voices were heard with clarity at a distance of 44 miles. 1867—The electric waves that are now utilized in wireless telegraphy tion was kept up constantly for 12 and telephony were predicted in an hours. Great Britain declared war





The Naval Aviation post of the 1903-King Edward receives a ra- American Legion, New York City, dio message from President Roosevelt, composed principally of officers High-power stations were ordered by listed in the social register, has rethe Italian government. First translinquished its charter because of atlantic radio message sent. Telethe national organization's fight for graphic news service for ships at sea adjusted compensations. "Cancellais started. Marconi knighted in Rustion of this post's charter reduces the total number of Legion posts 1904-The first press message was from 11,022 to 11.021." National

Commander MacNider said when 1905-Patent suit started in New told of the naval unit's action: York between the Marconi and De For-'Fifty-six new posts have been Patent for horizontal directional chartered since April 1st. The loss aerial is taken out. This was a great of the naval aviation unit, therefore, step forward in long-distance work. reduces our net increase for 13 days 1906-International conference is to only 55 posts." held in Berlin, at which most of the

countries of the world are represented. The practice of prohibition en-1907-The use of steel disks for forces officials wearing the army producing notes were successfully uniform to trap violators of the liquor law caused the American Le-Radio stations in Ireland and Nova gion of Norfork, Va., to register a Scotia were opened for limited public protest with Secretary of War Weeks, who took immediate action. 1908-Radio stations opened for un-The Legion alleged desecration of limited public service between Great the insignia immortalized by American arms during the world war. 1909-Steamship in collision with an-

other off the coast of Florida suc-When the wife of a wounded budceeds in calling assistance by radio. dy was desperately ill, physicians 1910-Marconi receives messages appealed to jobless service men in 6,700 miles while on board ship going the American Legion barracks, Cleveland, O., for blood for a trans-1911-Canadian government leased fusion to save her life. The blood of the unemployed veterans was too 1912-Radio distress signals from thin, it was found, and volunteers the Titanic bring assistance and save had to be obtained from a Legion post of veterans who have jobs. 1913-Tests were made between the

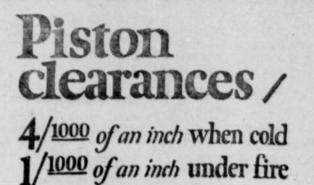
Elffel tower in France and the sta-Those who oppose the rights of tion at Washington. During the trip men who fought in the world war into Central Asia an explorer received are unpatriotic, Brig. Gen. Hanson his longitude and time signals from a Ely, commandant of the War Department's service schools at Fort 1914-Marconi and radio officials Leavenworth. Kan., declared in start test of wireless telephone bememorial exercises conducted by the tween vessels of the Italian fleet. The American Legion. Gen. Ely pleadtest was continued between vessels on ed for adequate care of the war disabled and adjusted compensation.

> Cupid is making such war-romance inroads in the membership of an American Legion post of Minneapolis, Minn., composed entirely of army and navy nurses, that a man's auxiliary, composed of husbands of the fair Legionaires, is being planned.

Fed up upon "wrong number, 'line's busy" and "line's out of order," the American Legion post of Decatur, Ark., bought the city's telephone company and after overhauling the system, will operate it.

The Republican party of Minnesota, assembled in state convention, unanimously voted resolutions in favor of the American Legion's adjusted compensation measure.

Use of the Stars and Stripes to advertise a junk shop or a fish market now is forbidden in New York. Following in American Legion's issuance of instructions on how to respect the flag, the New York legislature passed a bill prohibiting reproductions of the flag on "business stationery."



An automobile engine having a 4" bore will have when cold a clearance between its pistons and cylinders of approximately 4/1000 of an inch. When the same engine has been heated to operating temperature, this clearance will have decreased 75%, or to 1/1000 of an inch.

Likewise, a main crankshaft bearing having a clearance of about $1\frac{1}{2}/1000$ of an inch when cold, will show a decrease in this clearance at operating temperature to less than 1/2 / 1000 of an inch.

All oils lose viscosity, that is, they become lighter in body when subjected to the heat of engine operation

An analysis of Zerolene shows that the differ-ences in its body at the various engine temperatures, from cold to operating temperature, follow in close relation the decrease in bearing clearances.

The right body at all operating temperatures

For this reason Zerolene oils have at all engine temperatures exactly the required body to splash and flow freely into the fast-moving, small-clearance bearings to provide an ad-equate film of lubricant.

Because of their "oillness," Zerolene oils cling to bearing surfaces, and at the same time offer in themselves a minimum of resistance to the engine power going to the driving wheels. For this reason they give perfect lubrication and permit the development of the maximum power, speed and gasoline mileage of the car.

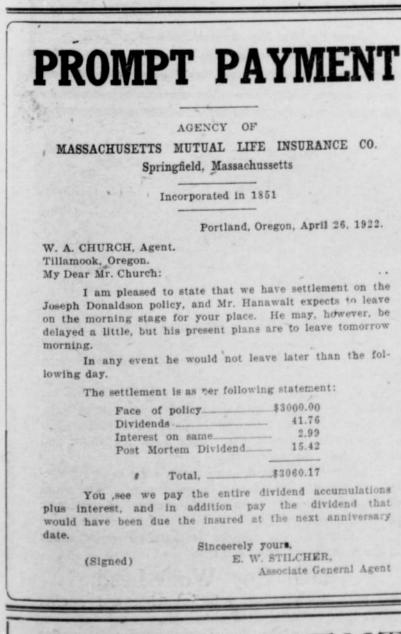


more power & speed \sim less friction and wear \sim thru Correct Lubrication



Page Three

PATTERSON CAMPAIGN COMMITTEE Portland, Oregon 201 Imperial Hotel Paid Adv.



Elizabeth A. Bergner, Radio Instructor in Lane Technical High School, Chicago, and Her Class.

address before the Royal Society in | upon Germany August 4 and all private radio telegraphy and telephony London, England. 1880-The sending of an electric cursuspended.

rent through earth was systematical-1915-Radio communication between ly studied by John Trowbridge of America and Japan is completed. The Harvard. It was found that signal- stations were located at San Francisco ing might be carried on over large and Tokyo with a relay station at Hondistances between places not connected olula. The American Telephone and Tele-

1885-It was found that telephonic graph company succeeded in radio telspeech could be conveyed by induction ephoning from Arlington station at over a space of quarter mile. This Washington to Hawaii, a distance of experiment took place in England. nearly 5,000 miles. 1889-Electric waves were sug-

Secretary Daniels of the United gested as being particularly suitable States navy transmitted telephonic for the sending of signals through messages from Washington to the Brooklyn navy yards.

1916-President Wilson and the mikado of Japan exchange messages discovered which was given the name over the new transpacific radio service, which is formally opened.

1917-Senatore Marconi visits the United States and alds greatly in recruiting for radio operators for the United States army.

1918-Wireless telephony progressed rapidly, being used to a great extent in the equipment of airplanes. of the British postoffice system in- lis, Md., that it was capable of communication at 4,000 miles. The United States government also opened a highpower station at Bordeaux.

In September of this year radio signals sent from a point 12,000 miles away were received in Sydney, Australia.

1919-With the exception of the three transatlantic flights-that of the U. S. NC-4, and the British flights of Alcock and Brown and the dirigible on the Isle of Wight and experiments R-34, in which radio communication conducted over a distance of 14 miles. played an important part in keeping Near the end of the year the first the ships of the air on their courses-Restrictions upon amateur receiving and sending were lifted by the Ameri-

was sent from the Isle of Wight 1899-Reports made on lighthouse can government. accident by radio. First French gunboat is fitted with radio apparatus. In telephone, more attention probably be-Vienna communication between two balloons is established. New York to its older brother, telegraphy. Sev-and the village gave a lot to the Herald receives radio report of inter- eral broadcasting stations were opened. Elizabethtown, Ind., post of the 1921-This year was another radio American Legion when it wanted a national yacht races. The British war telephonic year. It was marked by community home. The ex-soldiers office introduces Marconi apparatus 1990-German vessel communicates a | stations,

When Major General Clarence R. Edwards, leader of the Yankee Division in the world war, asked a group of American Legion men at Holyoke, Mass., what type of adjusted compensation they would take, 85 per cent elected the insurance feature, ten per cent the farm and home aid and the rest declared for vocational training.

Starting simultaneously in every ommunity in the United States, on April 30, the international association of Rotary clubs and the American Legion will combine to observe 'Boys' Week'' with exercises and programe of interest and help to young America.

New York City is hearing voices from the clouds as Lieut. B. W. Maynerd, former army chaplain, is flying over Manhattan with a group of girl singers. The airplane is Several new long range stations equipped with a radio broadcasting were erected in the United States, it device. The stunt was arranged to one-quarter miles. Sir William Preece being claimed for one built at Annapo- raise funds for an American Legion camp in the Adironack mountains for sick and wounded service men.

> Madras American Legion post will build a home for use of the posts and citizens of the community. At the meeting of the post to discuss this matter one thousand dollars was immediately pledged by the membership. Construction on the home will be started shortly.

North Bend Post American Legion will soon erect a \$20,000 modfloating wireless station was success- no very great progress was made in ern home. The building as planned radio telegraphy, although radio tele by the architects is estimated to 1898-The first paid marconigram phony was being pushed along quietly. estimate cost \$17,900 and the grounds have already cost \$2800. The post will be incorporated and shares of stock will be issued to 1920-This was the year of the radio raise funds to put up the building.

into the South African battlefields. the opening of numerous broadcasting will erect a log clubhouse doing all the work themselves.

to be told of it.

Anything that will teach them that it takes one hundred cents to make a dollar is worth while, and since it is as easy to establish good habits as bad, we suggest a 'Nationalized' Savings Account as a starter for your boy or girl. Then constant encouragement and help will keep it growing.



