

The AMERICAN LEGION

(Copy for This Department Supplied by The American Legion News Service.)

DEATH BY GAS IS DENOUNCED

Prof. J. H. Mathews, Former World War Major, Condemns Method Used in Nevada.

Nevada's chamber of death, the gas room which a new law in the state provides is to be used for the execution of condemned criminals, is strongly denounced by Prof. J. H. Mathews, chairman of the department of chemistry, University of Wisconsin, and an expert on poisonous gases. Professor Mathews served as a major in the World war, studying gas warfare at the British front and serving in charge of the gas and flame branch of the trench warfare section of the United States army.



"The purpose of gas in warfare is to produce as much agony and torture as possible, in order that the victim may be at least incapacitated, if not actually killed," Major Mathews is quoted as saying to the American Legion news service. "And it is inconceivable that a state should desire to use gases which produce such effects. The purpose of capital punishment is to remove the victim quietly and effectively, in order that society henceforth may be protected and to serve as a warning to other potential offenders."

"It is to be hoped that civilization has reached a point where revenge is no longer a motive. Only savages torture their victims before killing them; the use of any of the war gases to remove criminals would be quite in line with the practice of savages."

Professor Mathews said there were gases which might be used for executions, if the use of gas at all could ever be deemed wise. Carbon dioxide, the poisonous constituent of ordinary illuminating gas, he declared would be the logical one to use. He asserted, however, that if the administration of gas for execution of criminals were carried out, it should be entirely in the hands of medically trained men who understand both its use and attendant dangers.

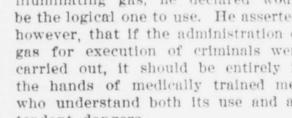
"The horrors of poorly carried out electrocutions are sufficiently vivid in the minds of thinking people to make them abhor any method of execution which may not be both humane and effective," he declared.

CLIMBS FOR LEGION POSTS

George Polly, Lynn, Mass., Ex-Soldier, Gives Exhibitions to Help Raise Funds.

Some people are height shy. They grab hold of a chimney on the roof of a story-and-a-half dwelling and look over the side only to seek the skylight and the lower regions. "Human Flies" are afflicted with the opposite complex. They can't stand on the ground and look at the chimney without wanting to go right up the front of the building and see if a chick-a-dee has built a nest there.

Such a human fly is George Polly of Lynn, Mass., ex-soldier in the Aus-



"Human Fly" Scaling Building.

tralian army, who for the last two years has climbed buildings from coast to coast for the benefit of Legion posts. He has climbed the Woolworth building in New York, the Custom House tower in Boston and the highest buildings in every other city of size.

His hands and his toes are all he uses in scaling. Needless to say he has never fallen.

Legion Post of City Firemen. A post of the American Legion, composed exclusively of city firemen, has been formed in New Orleans. The fire fighters plan to enter a team in the Legion athletic meet next October.

MEDAL OF HONOR MEN GUESTS

Wearers of Congressional Decorations Will Be Prominent at Legion National Convention.

Prominent among the distinguished guests at the American Legion national convention in New Orleans, October 16-20, will be wearers of the congressional medal of honor, the highest award for bravery made by the United States. Lieut. Sydney G. Gumpertz of New York was the first medal of honor man to accept the convention invitation.

The citation of Lieutenant Gumpertz came as a result of an act of heroism while serving as a sergeant with the One Hundred Thirty-second infantry in the Bois de Forges, September 26, 1918.

Advancing under hostile machine gun fire, Gumpertz killed two German gunners with pistol fire and the remaining 14 members of the crew surrendered. About thirty minutes after this exploit the platoon was again held up by German machine gun nests. Volunteers were asked far to silence the guns. Gumpertz, a corporal and a private volunteered and the trio advanced in single file.

Encountering the enemy's barrage, the two companions of Gumpertz were killed by a shell, but Gumpertz continued to advance alone on the nest by the flank and located it. He then threw into it a Mills hand grenade and killed and wounded several members of the crew. The remaining 16 members surrendered themselves and the two heavy-type machine guns. The action of Sergeant Gumpertz enabled his unit to continue the advance.

WHAT THE LEGION IS DOING

Reno (Nev.) Editor, on Bike Ride Through Country, Spreads News of the Posts.

Traveling 125 miles a day, and camping at night by the roadside, Donald F. Chase, twenty-one years old, recently passed through Middle Western cities on a bicycle from Reno, Nev., to Syracuse, N. Y.

Young Chase's family lives at Syracuse and, as a vacation from his duties as city editor of the Nevada State Journal, the energetic lad decided he would ride through and see his mother. The Reno American Legion saw a chance to do some worthwhile advertising. So arrangements were made whereby Chase should speak before 110 Legion posts on his way across the continent. At first he spoke only of what the Reno posts of the Legion and the Nevada state department are doing, but later he found that he could be of greater service by telling each post of all the good things that other posts along his route are doing.

The young gawling gun which he carried with him saw service when an automobile driver ran into his bicycle near Topeka, Kan., and then refused to stop to see what damage had been done. Chase put a bullet in a tire and then made the driver haul him and his bike to town.

"One doesn't realize just what the American Legion is doing until he visits Legion posts and sees the efforts of these posts to improve their communities," he said.

WILL DANCE FOR DOUGHBOYS

Miss Emily V. Schupp, Duluth, Volunteers Services at New Orleans Convention.

Miss Emily V. Schupp of Duluth, Minn., has volunteered to dance for her doughboy friends at the American Legion national convention in New Orleans next October.

During the war Miss Schupp, who is known professionally as "Lada," entertained thousands of soldiers in the cantonments of America. She has appeared at Legion entertainments in a number of Minnesota cities. Miss Schupp, who is also a soloist, is scheduled to appear at a recital to be given at the New Orleans convention by the Duluth American Legion band, which won first prize over 75 competitors in the band contest held at the Legion convention in Kansas City last fall.



Carrying On With the American Legion

Huge sign boards "telling the world" how to find the American Legion clubrooms have been erected on all roads leading into Riceville, Ia., by the post there.

Auxiliaries fashioned on identical lines with the American Legion auxiliaries have been organized in Canada. They have been organized in Canada, England. In each the women must be wives, mothers, sisters or daughters of members of the war veterans' associations, whose disqualifications their eligibility. The service comprises the Canada and England visit of disabled veterans and care for help dependents and aid the veterans in securing legislation to mitigate their war burdens.

RADIO

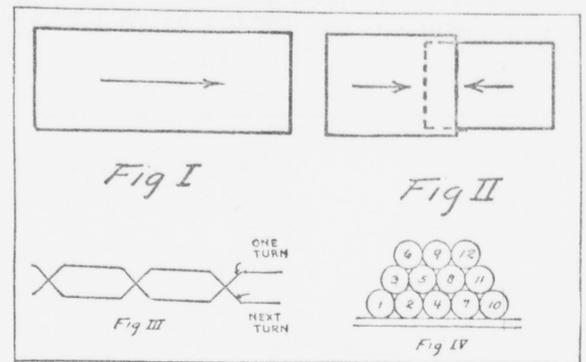
VARYING INDUCTANCE OF THE TUNING COIL

How Different Forms of Winding Affect Reception of Long and Short Waves.

Tuning inductances for radio receiving circuits are made in a variety of forms. For short waves, the most commonly used form of inductance is the single layer solenoid, which is nothing more nor less than the common tuning coil, consisting of a single layer of wire wound upon a cylindrical form.

The method used to vary the inductance of a tuning coil is a slide which gives single turn variations or a switch which usually varies the inductance in groups of turns. For very close tuning where even the turn to turn variation is too coarse, a series or shunt in the circuit is necessary.

A closer variation of inductance can be procured by splitting the number



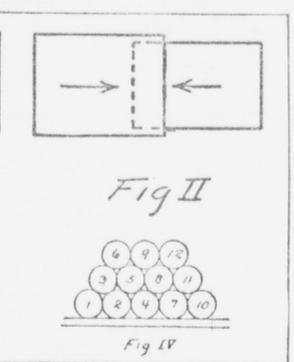
of turns in two and winding one-half on a hollow cylindrical tube, and winding the second half on a slightly smaller cylindrical tube of such size that it can easily be slid into the first one. If now, the two coils are connected in series but in such a manner that their magnetic fields interlock, a continuous variation of inductance can be had by moving the coils with respect to each other. Fig. 1 represents the tuning coil—all of the magnetic field in the same direction. Fig. 2 represents approximately the same winding as was used in Fig. 1, but wound on two concentric forms. When the two coils of Fig. 2 are separated the fields of the two coils do not react and the inductance is the sum of the separate inductances of the two individual coils.

As the coils are brought closer together the field of one coil bucks

down the coil and the total inductance is decreased. Finally when the winding on the inner cylinder is exactly under the winding on the outer cylinder, the inductance of one coil neutralizes that of the other and the resultant inductance, neglecting leakage, is zero.

A variometer functions exactly as did the two coils shown in Fig. 4. In a variometer, one coil rotates with respect to the other instead of sliding in and out as was the case in Fig. 2. If the windings of a variometer are on a cylindrical surface there will be a large amount of leakage, which decreases the ratio of maximum to minimum wave length to which the variometer will tune. A variometer with windings on a spherical surface and having a small mechanical clearance between rotor and stator will give minimum leakage. There is an excellent variometer on the market at the present time with a so-called "basket" winding. Not only are the windings on a spherical surface, but a cross-section of the winding (see Fig. 3) is such that the distributed capacity is reduced to a minimum. This is accomplished by separating adjacent turns and crossing them at right angles.

This same method of winding inductances is applied to the "spider web" coils. The change in wave length when using "spider web" coils is accomplished by the use of a series of



shunt variable condensers since the coils are not as a rule provided with taps.

For longer wave lengths the bank wound coil is used to reduce the distributed capacity in winding multi-layer inductances. Fig. 4 shows how the turns of three-layer bank wound inductances are arranged.

The "duo-lateral" coil is an improvement over the bank wound coil. In a "duo-lateral" winding the conductors in two successive layers are not parallel as they are in the bank winding, but cross each other at an angle. In our estimation basket wound variometers with no shunted capacity are most efficient for short wave tuning while duo-lateral windings of large diameter, with a small amount of shunted capacity for tuning, are most efficient for long wave reception.

USEFUL "DON'TS" TO KNOW

Every One of Them Is Valuable Advice to the Amateur Radio Operator.

- Don't fail to insulate the antenna.
- Don't place the lightning switch indoors.
- Don't listen-in during a thunder-storm.
- Don't cause interference with other stations.
- Don't try to use a loud speaker with a crystal set.
- Don't run wires parallel in making up receiving sets.
- Don't neglect to read everything available on radio.
- Don't attach ends of antenna to power or telephone poles.
- Don't connect a radio set direct to the electric light circuit.
- Don't forget that tickler coils are not used with crystal detector sets.
- Don't expect to get loud signals with a crystal detector set while using an indoor antenna.
- Don't always blame the broadcasting station. It is sometimes the fault of your own apparatus.

Annealing Hard Wire.

If hard-drawn copper wire is used for connections in the rear of panels, it will break when bent or it is most sure to break upon removal from the fastening. The end of the wire may be annealed by heating it in a flame or by applying a coat of tin or solder. The wire can then be bent several times, without its breaking.

Help Tube With Magnet.

The sensitivity of an audion tube sometimes may be increased by placing a large horseshoe magnet in a certain position so that the poles of the magnet are on each side of the tube. This probably is due to the magnetic effect upon the moving electrons that flow across from the filament to the plate.

Length of Aerial Wires.

A single wire aerial is sufficient, if one at least 75 feet long can be put up. If the aerial is shorter, use two wires, taking the leading-in wire from the far end. If the aerial is to be only 50 feet or less over all, make it a four-wire one, and again take the leading-in wires from the far end.

Will Stop Jamming.

It is proposed to increase the number of available wave lengths for broadcasting by varying some of the many 360 meter stations by 25 or more meters.

Brunswick

January Records ON SALE TODAY

For Your Convenience—Clip This List

BRUNSWICK RECORDS PLAY ON ANY PHONOGRAPH

Artist	Popular Dance Hits	Selection	No.	Size	Price
Bennie Krueger's Orchestra	Some of These Days—Fox Trot	It's Getting Dark on Old Broadway—Fox Trot	2340	10	\$.75
Carl Fenton's Orchestra	Sweetheart Lane—Fox Trot	Who Loves You Most After All—Fox Trot	2341	10	.75
Oricle Terrace Orchestra	Foot, Foot, Tootsie!—Fox Trot	Cher Blossom Blues—Fox Trot	2337	10	.75
Joseph C. Smith and His Orchestra	Lovely Lucerne—Waltz	Isle of Sweethearts—Waltz	20007	12	1.25
Henry Lange (Pianist)	Flanflanes—Fox Trot	Kutenreddy—Fox Trot	2344	10	.75
The Cotton Pickers	I Wish I Could Shimmy Like My Sister Kate—Fox Trot	Got To Cool My Baggies Now—Fox Trot	2338	10	.75
Arnold Johnson and His Orchestra	You Remind Me of My Mother—Fox Trot	Let's Get Along—Little Nellie Kelly—Tumbling Down—Fox Trot	2339	10	.75
Florence Easton (Soprano)	Mignone—Connais-tu le pays? (Knowest Thou the Land?) Act I (Thomas) In French	Faust—Le Roi de Thule (Ballad of the King of Thule) Act III (Gounod) In French	15030	10	1.50
Mario Chamlee (Tenor)	Alba Separa Dalla Luce	L'ombra (1913) Banishes the Night (D'Annunzio-Tosti) In Italian	50020	12	2.00
Marie Tiffany (Soprano)	Triste Ritorno (Home-Coming) (Bartolomeo) In Italian	Kuchardi Song (Hooper) Woodforde (Finch)	13057	10	1.25
Theo Karle (Tenor)	Stabat Mater—Cujus animam	Through His Bleeding Sides (Gounod) In Latin	35002	12	1.75
New York String Quartet	Quartet in F Major—Lento	Quartet in F Major—Scherzo (Dvorak) String Quartet	25015	12	1.50
Bronislaw Huberman (Violinist)	Ballade (Vieuxtemps) Piano	Sonata by Paul Frankel (Vieuxtemps) Polonaise (Vieuxtemps)	50019	12	2.00
Vessella's Italian Band	Semiramide Overture—Part I (Rossini) Concert Band	Semiramide Overture—Part 2 (Rossini) Concert Band	25014	12	1.50
Marion Harris (Singing Comedienne)	Aggravatin' Papa—Hot Lips	Hot Lips	2345	10	.75
Margaret Young (Singing Comedienne)	Lovin' Sam—He Loves It	He Loves It	2346	10	.75
Al Bernard and Ernest Hare (Tenor and Baritone)	Sweet Mandy—I'm Done-Done-Done With You	I'm Done-Done-Done With You	2347	10	.75
White Way Male Quartet	My Dixie—The Trail To Long Ago	The Trail To Long Ago	2348	10	.75
James Lynch (Tenor)	Tomorrow Morning—Hawaiian Nightingale	Hawaiian Nightingale	2349	10	.75
Nina Koshtetz (Soprano)	None But the Lonely Heart (Tchaikovsky) Piano	None But the Lonely Heart (Tchaikovsky) Piano	15029	10	1.50
Nina Koshtetz (Soprano)	Eastern Romance (Rimsky-Korsakov) In Russian	Humoresque (Moussorgsky) In Russian	15031	10	1.50
Ukrainian National Chorus	Over the Vast Plains (Stetsenko) Mixed Chorus	Our Lady of Potchah (Leon-tovich) Baritone Solo by E. Ordynski, Mixed Chorus	15032	10	1.50
Ukrainian National Chorus	Hey! Near Harsypud (Koshetz) Tenor Solo by G. Leonov, Mixed Chorus	The High Mountain (Lyssenko) Mixed Chorus	15033	10	1.50
Ukrainian National Chorus	Poor Hawthorne (Koshetz) Soprano Solo by T. Georgievsk, Mixed Chorus	(a) Kozza (Leon-tovich) Mixed Chorus; (b) Shtehedyk (c) Kozza (Leon-tovich) Mixed Chorus; In Ukrainian	15034	10	1.50
Ukrainian National Chorus	(a) Cuckoo, Grey Cuckoo (Stetsenko) Mixed Chorus; In Ukrainian	(b) Kolumyika (Kolossa) In the Jordan (Stetsenko) Mixed Chorus; In Ukrainian	15035	10	1.50

The White Drug Store

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