(Continued from Page 1.) Pacific coast in the final round for the first time and in the first tournament held in the far west the gallery of perhaps 5,000 spectators manifested strong support of Johnston throughout and gave him a tremendous ovation at the

The contrast between the bareheaded-whiteshirted "Jimmy" and the portly, somewhat sour looking dentist may have had some influence. Johnston too, was the younger, for Willing is a campaigner of 39, and "Jimmy" was the underdog for the first half of the match, Furthermore, the doctor's known disinclination to concede short putts has found disfavor among the spectators a num. ber of times during the tournament and that too, appeared a factor in the unusual partisanship of the jostling jam.

Throng Pleased When Willing Misses Putt

Whatever it was, the match witnessed a startling outburst of cheers, at the eighth hole, when Willing missed a shot in a trap and Johnston won his first hole after apparently having tossed it away by putting his second shot over the cliff to the oceanside. Again at the 16th hole, where St. Paul "Jimmy" really began his uphill fight to victory, scattering cheers echoed as Willing's second shot trickled over the edge of the green into a trap, from whirh it took the doctor two to get out.

Again at the 18th, the partisan spirits in the gallery groaned as Willings approach shot, aparently headed for a trap, just cleared the hazard and made the green. It was on this hole that Johnston made the most magnificent recovery shot of the entire match. He had just cut Willings lead from three to one hole by taking the 16th and 17th in succession but it looked dubious when "Jimmy" pulled his brassie over the bank and down to the edge of the ocean. The surf lapped around his ankles as he took his stance but he clouted the ball to within six yards of the green, just short of a trap, from where he chipped dead to the pin for the par five that gave him a half. Willing requiring two putts to get down.

Failure In Short Putts Handicaps Johnston

Had Johnston been able to sink at least a half dozen short putts, ranging from four to eight feet, he would have won the match long before the 33rd.

On both the 14th and 19 in the morning, after beautiful pitch shots, Johnston missed short putts by inches for wins. Both finished the first round in even 80, eight over par, to show the extent of their poor scoring but Johnston by coming back in 37, only one over par. In fact "Jimmy" played the last eight holes of the first round even par. Willing was out in 7 back in 39. Johns: - Squares Match

At Nincteenth Green t Nincteenth Green poses. Dr. Willing was No. 7 but They started shakily again in all those higher in the rating fell the afternoon, both taking two by the wayside. Champion Jones shots out of traps on the 19th to went out in the first round along reach the green but Johnston got with George Von Elm, while Jess down in five to win the hole and square the match. Thus encour- Tolly passed out in the third aged, Johnston took command of round. Yesterday Johnston disthe situation for the first time. He posed of Francis Ouimet while began to hit his shots with more Willing conquered H. Chandler confidence, boldness and accur- Egan in the semi-finals, acy. He missed a five foot putt for a win on the 21st but took the lead on the 22nd for the first time when Willing putted three.

"Jimmy" planked his tee shot to the 160 yard 23rd hole, 10 feet from the cup, and won the whole with a three after Willing was trapped and exploded to the opposite of the green.

Aided by a "break" Johnston won his third straight hole and virtually settled the match, on the long 502 yard 24th, which bends around the cliff at the oceans edge and finished uphill. "Jimmy" Has Luck Passing Hazards

Going for the green with his of airplanes in the district. second shot, using a spoon Johnston half topped the ball and it barely carried over the cove that Lee Everly at the Salem airport cuts part way into the elbowed was not sure Saturday afternoon fairway. He was still 60 yards of the exact time they would be short of the green but laid a chip shot dead, eight feet from the cap.
Willing chipped short, missed his Willing chipped short, missed his ed ahead of the planes' flight putt and Johnston holed for a north from San Francisco to Sabirdie, the first and only one of lem. the entire contest.

man from then on. Johnston, on he wired. Salem citizens have most of the holes, was putting for been invited to go to the airport the win while "Doe" was strug-gling for the half. On the 110 yard 25th, Johnston missed a six foot putt for a birdie two which would have made him four up. Willing had to get down in one putt on the 26th to get a half. He won back a hole at the 27th, when Johnston was trapped, but the end was in sight. Willing Slices Shot

Oror Ocean Bank The doctor made a remarkable recovery with his niblick, reaching the green, but he could not sink a 20 footer. Both were in trouble on the short 30th but Johnston finally took it with a four to Willings five. This hole marked the fourth time in the match that Willing took two shots to get out of a bunner. It seemed that what hopes he had were buried in the sand tonight, for on each of these occasions he lost the hole.

Saturday at the Smith Funeral chapel for Columbus Hooker Howell, \$9, who was found dead this week morning at the Jerman and Crittenden hopyards where he was employed as a night watchman. Death was pronounced due to apoplexy.

The deceased was a son of the first white settler on Howell Prairie, between Salem and Silverien, and was born there March 129, 1860; and lived most of his

Johnston thus marched to his charged;
first national championship at the One son, Hermann Howell of

### Watch That Left!



Introducing Art Akers who whangs away with his left and down goes MtGinty. Only it will be Ted Fox who faces Mr. Akers next Thursday night at the Salem armory and Harry Plant says there's no ques-tion . . . It's going to be a real fight,

## Harry Plant is Confident Coming Fight Will be Hot

Nor was it the I'll-tell-you-andou-go-bring-the-crowd idea. It was the deep-seated belief of one of Salem's long-time fight pro-

moters and judges: "The Fox-Akers fight next Thursday is to be about the sweetest scrap Salem has seen in years." And Harry ought to know. He's seen Fox perform through a number of mixes, some of which are now classic in the minds of Salem fight fans.

And he knows Akers quite well. too. Five years ago Akers tussled here with Phil Bayes and Harry hasn't forgotten.

"Believe me, that lad Akers is a fighter," he confided Saturday night's card which he believes will to a member of the Statesman be the best the fans have witness-

and coming lad of 26 summers, day.

Harry Plant grew confidential. | who hails from Wilmington, Calif. Recently he took two victories from "Kid" Jap by the knockout route and also Franky Bolt sleeping on the floor while on another of the Salem high school. occasion he took this mitt-tosser to a decision. Art Akers made his second de-

but here in a preliminary at the last car when he took only two minutes and 12 seconds to place Mr. O'Leary to rest on the canvas. Add to Akers' experience in the ring a term of service in the army and you have a brief account of

his career to date. Harry will be busy arranging the other events for Thursday rather have a knockout in one

August was a month without a

single cloudy day according to the

official weather report which. means that on no day in the month was the sky more than

three-tenths overcast. Rainfall for

the month was one-half of an inch

while clear days were listed as 26

The weather showed a marked

improvement over 1928 in August

August 1928 was 96 degrees.

was 50 degrees.

the past month was 39 degrees;

in August, 1928, the minimum

Lena Belle Tartar, director of

music in the Salem high school, will again have charge of the mu-

sic program for the annual Marion

county school teacher's institute

Phone 1247

and partly clear as five.

redeemed an erratic outward 43 age of 33 in a tournament that Berkeley, Calif., survives, also a sister at Walla Walla; and a niece knocked the dope all over Pebble Mrs. C. J. Stanton of Monmouth. Beach and the surrounding Cali-Burial was in the Knights of Pyfornia countryside. So lightly were thias cemetery here, with Rev. L. "Jimmys" chances regarded that H. Willard of the Evangelical he was only number 6 in the rank-ing list used for "seeding" purchurch officiating. Sweetser, George Voigt and Cyril

Salem is to be host today to when there were only 13 clear three planes composing a squad-days, and 11 cloudy days with ron sent out by the Curtiss Flying seven days being listed as partly Service, an organization conducting a 4000 mile survey of the northwest with the view of making the country here "more airminded" and developing the use

The girplanes will not arrive until Sunday afternoon although

willing was game right down to ing new sales centers and in the finish but he was a beaten building up the aviation business' today and see the squadron.

MONMOUTH, Sept. 7 .- Funeral services were held at 2 o'clock recovery with his niblick, reach. Saturday at the Smith Funeral

that what hopes he had were buried in the sand tonight, for on each of these occasions he lost the hole.

All Johnston needed to protect his margin of four up was to halve the next three holes and he did it; helped on the first as well as the long 21nd by brilliant chip shots that enabled him to offset mistakes and get down each time in one putt.

The deceased was a son of the first white settler on Howell Prairie, between Salem and Silverion, and was born there March 29, 1860; and lived most of his early lifetime in that community. Later he spent many years on ranches in eastern Washington and Oregon. Recently he had been in poor health, and was confined to a Salem hospital for treatment until about two months ago, when he improved sufficiently to be dis-

## Screen Grid Tube Is Told About by Radio Expert in

reen grid tube; practically every nanufacturer of radio sets has the screen grid tube is used, some jobbers and dealers seem to feel that it contains some queer magic by which all the former ills of the radio are to be cured at one stroke. Yet nowhere, so far as I know, has there been a simple statement of just what it is and why it works as it does, according to Charles K. Dennison, local radio dealer.

A vacuum tube is supposed to be a oneway device, that is voltages applied to the grid will be repeated and amplified in the plate circuit, but there will be no action at all in the other directions, from the plate brack to the grid. Tubes lived up to this expectation until we tried to get very high amplifications out of them. Then it was found that they were not 100 per cent one way, but it was possible for a small amount of voltage to leak backward through the tube, and this was very troublesome. It caused radio receivers to howl and squal, and made them quite useless for radio broadcast reception.

to make a tube generate an alternating current of high frequency, a path outside the tube was arranged to feed part of the voltage from the plate back onto the grid.

to be held in the high school building here October 7 and 8, Superintendent Mary L. Fulkerson announced Saturday.

Program for the institute. than 500 teachers from all over the county, will be completed The county sanitary officers and the grid, that caused so much Miss Agnes Campbell, county su-trouble. pervisor of nurses, will be able to meet with the congregated teachers, according to the program being outlined by Mrs. Fulkerson and her assistant, R. W. Tavenner

Sweeping changes in requirements for naturalization are in the offing according to U. G. Boyer, county clerk, who received a large supply of new blanks Satcrew. "He packs a wicked left and ed for many a day. Both Fox and urday which will be used hereafif it lands squarely on Ted Fox Akers like fights and knockouts ter in all transactions with the . . . it may be curtains for Ted's and the fans . . . well, they'd naturalization service of the United States department of labor To those who know less than round than ten rounds of punch. While Mr. Boyer had not had suf-Harry Plant about Akers it might taking so it looks like a merry ficient time to study all the chanbe well to introduce him as an up fight and a big crowd for Thurs- ges under the new regulations, it was evident that larger fees would be required of applicants for citizenship in the future. Mr. Boyer interpreted this as a movement to make the service more nearly self supporting.

> On one of the blanks, an application for a new declaration of intention in lie of one lost or destroyed, ten dollars is required as a filing fee instead of one dollar previously charged. Two photographs of the applicant must accompany each form.

You're there with a Crosley You want the best -we have it

clear. The maximum temperature for August 1, 1929, was 98 degrees while the maximum for The minimum temperature for

screen grid

Open Evenings Terms if desired

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**Explaining Equipment** 

Everyone is talking about the This was done in regenerative rein tuned radio frequence receivers, brought out a new model in which even the small leak through the tube itself had to be stopped or compensated for.

> tralization, including the Hazeltine method, which is probably the best, were developed to balance out this small voltage that leaked back through the tube. The balancing devices called for extra windings on the transformers between the tubes, to collect the balancing voltage, and then a balancing condenser, by which just the right amount of this voltage could be fed back to the grid. The adjustment of these balancing condensers was difficult, and the whole arrangement was complicated and expensive.

The problem for the tube designers was to produce a new tube that was really a one-way device, that did not have this small leak for letting voltage come back the rwrong way and cause trouble. The screen grid tube is the answer to this problem. In this tube the leak is so extremely small as to Of course, when it was desired be negligible in all ordinary re-

therefore not a virtue, but the necessary cure for a very troublesome defect in the tubes themselves. Receivers which use the screen grid tube do not require to be balanced, there is nothing to be balanced, the tube has not feed back path in it. The balancing condensers and the extra windings are which will be attended by more left out, and the whole circuit becomes simpler and more stable.

> When the screen grid was tried out, it was found that it not only stopped the leak, but that it also made it possible to get very much higher amplification out of the tube. It is not feasible, in broadcast receivers, to use all the amplification of which the tube is capable, because if this is done, the voltage on the output side will be so much higher than the input voltage that there will be sufficient leakage in the wriing of the set to cause very serious trouble.

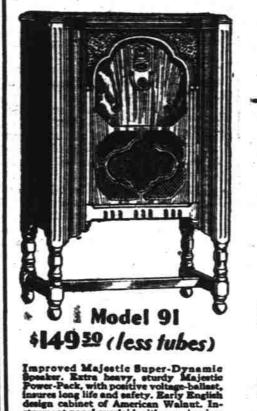
All the various methods of neu-

The balancing of a receiver was

The screen grid is an extra eleshortly. Two main speakers, Dr. ment inside the tube. It is placed C. E. Moore of the school of edu- on both the inside and the outside cation of Cornell University, N. Y., of the plate. It does not prevent and Dean J. R. Jewell of O. S. C. the tube from amplifying the school of education, were chosen proper direction, but it does eliand announced some time ago. minate the small leak, back to

But the greater power of the to make the whole receiver much only in amplification, but in se-screen grid tube can be utilized better than the earlier types, not lectivity and quality as well.

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