



By IRVING BACHELLER

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CHAPTER XXIV-Continued. -23-

"So here I am on the ship L'Etolle and almost in sight of Boston harbor, bringing help, and comfort sto our great chief.

"I was presented to the king and queen. Of him I have written a stout, fat-faced man, highly colored, with a sloping forchead and hirge gray eyes. His coat shone with gold embroadery and leweled stars. His closefitting waistcoat of milk white satin had golden buttons and a curve which was not the only sign he hore of rich wine and good capon. The queen was a benutiful, dark huired lady of some forty years, with a noble and gracious. countenance. She was clad in no vesture of gold, but in soher black yelvet. Her curls fell upon the loose ruff of lace around her neck. There were, no jewels on or about her bare, white bosom. Her suille and gentle voice, when she gave me her bon voyage and best wishes for the cause So dear to us, are jewels 1 shall not soon forget. "Yes, I had a little talk with Margaret and her mother, who walked

with me to Franklin's house. There, in his reception room, I took a good look at the dear girl, now more beautiful than ever, and held her to my heart a moment.

"'I see you and then I have to go.' I said.

"It is the fault of my too romantic. soul,' she answered mournfully. 'For two days we have been in hiding here. In care of Franklin this account of the I wanted to surprise you."

"She lifted the jeweled cross I wore to her flps and kissed it. I wish that our commander the same old look of I could tell you how beautiful she looked then. She is twenty-six years could see his way and what a sense

CHAPTER XXV

The Horse of Destiny. In Boston harbor, Jack learned of faith is established. He is not afraid the evacuation of Philadelphia by the of evil tidings. This great, god-like

while those who practice fraud and Toryism are getting rich." Depressed by this report of condi- hitched on to my waist an' he pulled tions in America Jack set out for an' hauled an' hellered whoa an' git Washington's hendquarters on the Hudson. Never had the posture of bull frog. When we got back he want-American affairs looked so hopeless, ed to go all over me with a curry comb The governor had sold him a young an' braid my mane.' mare with a white star in her fore-

as the horse of destiny.

ferry the mare went hame. A little my father had given all his horsesthe north.

"That's a good-looking mare," the great British empire. man remarked.

Jack answered. "But she has thrown to France in the hope of finding you a shoe and gone lame."

"I'll trade even and give you a sound horse," the man proposed. "What is your name and where do singular and disheartening situation. you live?" Jack inquired.

"My name is Paulding and I live at Tarrytown in the neutral territory." that a third party was looking on and us were able to penetrate," Jack used lars worth a hundred cents. They are Isfactory means. to say of that deal.

ments on his spirit.

day which followed his return to camp:

"Thank God! I saw on the face of unshaken confidence. I knew that he old and her womanhood is beginning." of comfort came of that knowledge! More than we can tell we are indebted to the calm and masterful face of the army in all discouragements. His

British and was transferred to a personality of his has put me on my Yankee ship putting out to sea on its feet again. I was in need of it, for pect is not inviting, I fear, but if, hap- construction of the loop itself. In

It all over, 'twouldn't 'a' been right." 'Your'e wrong, Solomon,' I answered. 'You ought to have a home of your own and a wife to make you fond of it. How is the Little Cricket? "'Cunnin'est little shaver that ever lived,' said he. 'I got him a teeny waggin an' drawed him down to the big medder an' back. He had a string ap till he were erbout as hoarse as a

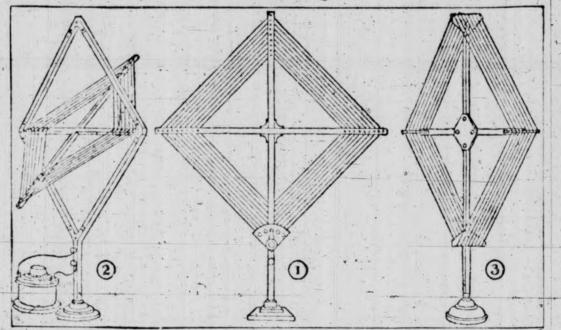
"The old scout roared with laughter head and a short, white stocking on as he thought of the child's play in her left fore leg, known in good time which he had had a part. He told me of my own people and next to their When he had crossed the King's good health lightensed me to learn that beyond the crossing he met a man on save two-to Washington. That is a big, roan gelding. Jack stopped him what all our good men are doing. So to get information about the roads in you will see how it is that we are able to go on with this war against the

"That night the idea came to me that "And she is better than she looks," I would seek an opportunity to return in Paris. I applied for a short furlough to give me a chance to go home and see the family. There I found a My father's modest fortune is now a part of the ruin of war. Soon after the paying their debts to him in dollars | One of the greatest steps along these - shunted across its ternilpals, the low-He approached the little house in, worth less than five cents. Many, and lines is the development of the loop er one of which is connected to the which the commander in chief was Washington among them, have suffered aerial. It is a well known fact that filament and the upper one to the grid quartered with a feeling of dread, in a like manner. My father has lit- good summer reception can be ob- of the first tube. fearing the effect of late develop- the left but his land, two horses, a tained with the aid of a loop aerial and yoke of oxen and a pair of slaves. So one or more stages of radio frequency. any degree worthy of you.

"Dear old Solomon has proposed to tain semi-favorable nights. has met the likely womern I must not talk. It has been said that a loop will depend upon him. So I have tried to pick up but 1-10 the signal voltage that to the discouragement I have heaped easily seen that we must increase or upon it I offer you this poor comfort. amplify this signal to such a value that a thousand pounds to keep a roof over of wiring up and operating a radio our heads and a fowl in the pot and frequency amplifier has been published pudding in the twifflers while I am' in detail many times, therefore it will



(Edited by G. Douglas Wardrop, Editor of Radio Merchandising.)



Types of Loops Which Can Be Constructed at Small Cost.

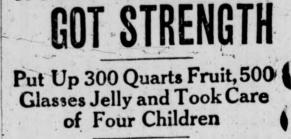
By HARRY GEORGE radio, it knows no favorite type of set ; unique duty of controlling the potential beginning of hostilities he had loaned it affects all, but engineers have de- on the grid of the first-tube, thereby "I accepted his offer not knowing his money to men who had gone into signed circuits and methods of recep- eliminating the usual potentiometer. the business of furnishing supplies to | tion which at the present stage of de- The switch does not vary the induclaying a deeper plan than either of the army. He had tonned them dol- velopment can be termed as highly sat- tance of the loop. The frequency is

gest that you join your father in New the vast number of radio experiment-

| turns. This arrangement, which is Admitting that static is a bugbear to found in no other loop, performs me only varied by the condenser, which is

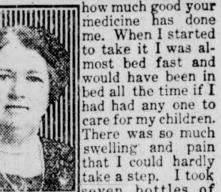
Other Kinds of Loops.

Another type of loop, of the pancake The young man wrote to Margaret I am too poor, to give you a home in Even distant signals have been copied type; which will afford interesting food in the hottest summer months on cer- for thought is shown in Figure 3. This loop was experimented with by H.-G. make me his helr, but now that he But to get down to the point of our Silbersdorff of Jersey City, N. J., and has the added feature of being able to not only rotate on its axis but can be make you know the truth about me as could be obtained with the use of an tipped to any desired angle as well. well as I do. If your heart is equal outdoor aerial. If this is so it is Experiments with the use of a resonance wave coil led up to the loop in Washington. It holds up the heart of When the war is over I can borrow it will operate a detector; the method have cortain defined advantages over its present form, and it was found to the average loop. It seems to at leastpartly solve the great summer question of signal to static ratio. When tipped clearing the way to success. The pros- not be given now. Our thought is the at certain angles the static is weaker way to that city. There he found the a different kind of man, of the name pily, it should appeal to you, I sug- laboratories and work accomplished by is as follows: If radio waves travel lish plant, neither resembling nor re-



HOW THIS WOMAN

Norwalk, Iowa.-"I have been meaning for some time to write and tell you



seven bottles of Lydia E. Pinkham's Vegetable Compound and used Lydia E. Pinkham's Sanative Wash, and found that so healing. I am not entirely well yet for I was in bad shape when I started your medicine, but I am so much better that I am not afraid to recommend it, and I think if I keep on taking it, it will cure me. I have done my work all alone this summer, caring for four children, and I canned 300 quarts of fruit and made 500 glasses of jelly, so you see I must be better. I feel pretty good all the time and I am glad to tell others about the medicine."-Mrs. C. J. WENNER-MARK, Box 141, Norwalk, Iowa.

Women can depend upon Lydia E. Pinkham's Vegetable Compound to relieve them from female troubles. For sale by druggists everywhere.

Arbutus Hailed as Harbinger of Hope

After the first terrible winter in New England, one of the first sights, to cheer the Pilgrims during the early spring days was arbutus, the "sweete'st flower that grows." The dainty block soms were hailed as a symbol of hope, a promise of the better things in store. after the tortures of that dreadful first winter. Tradition relates that the early Pilgrins were so overloved at the sight of the charming plant, the blossoms of which seemed to appear from under the winter's snow, that they called it the Mayflower.

The true Mayflower, however, reparallel to the surface of the earth lated to its native American name-

wounds, living in the fine mansion "Sit down here and tell me all the rich Tory families, for his second | Paris and especially of the work of wife, and was in command of the city. Colonel Irons, having delivered the letters to the treasurer of the United States, reported at Arnold's office. It was near midday and the general had not arrived. The young man sat down to wait and soon the great soldier drove up with his splendld coach and pair. His young wife sat beside him. He had little time for talk. He was on his way to breakfast. Jack presented his compliments and the good tidings which he had brought from the Old Country. Arnold listened as if he were hearing the price of codfish and hams.

The young man was shocked by the coolness of the commandant. The former felt as if a pail of ley water .had been thrown upon him when Arnold answered:

"Now that they have money I hope that they will pay their debt to me." This kind of talk Jack had not heard before. He resented it, but answered calmly: "A war and an army is a great extravagance for a young nation that has not yet learnedthe imperial art of gathering taxes. Many of us are going unpaid, but if we get liberty it will be worth all it costs."

"That sounds well, but there are some of us who are also in need of justice," Arnold answered as he. turned away.

"General, you whe have not been dismayed by force will never, I am sure, surrender to discouragement," satd Jack.

The flery Arnold turned suddenly and lifting his cane in a threatening manner said in a loud voice; "Would you reprimand me-you

d-d upstart?" "General, you may strike me, if you will, but I cannot help saying that we young men must look to you older ones for a good example."

Very calmly and politely the young ently. man spoke these words. He towered above the man Arnold in spirit and and of my fear that we should not New York, after this reaches you. Our stature. The latter did not commit meet again. the folly of striking him, but with a look of scorn ordered bim to leave "never falters. the office

once to call upon his old friend, Goy. 'rye straw. She's a-goin' to think it possible assistance. The war would ernor Reed. He told the governor over.' of his fulling out with the major "Neither spoke for a time. We sat fight. His caution is maddening. His reneral.

extravagance he has resorted to come out.

erected by William Penn. He had about Franklin,' he said with a smile. married a young daughter of one of "I told him what was going on in



our great minister to the court of Louis XVI.

"He heard me with deep interest and when I had finished arose and gave me his hand saying:

"'Colonel, again you have won my gratitude. We must keep our courage." "I told him of my unhappy meeting with Arnold.

"The man has his faults he is very human, but he has been a good soldler,' Washington answered,

"Solomon came into camp that evening. He was so glad to see me that he could only wring my hand and ut-

ter exclautations. "How is the gal?" he asked pres-

"I told him of our meeting in Passy "Solomon is a man of faith. He-

"He said to me: 'Don't worry. That requesting him to offer you' suitable Juck obeyed the order and went at gal has got a backbone. She ain't no accommodations and to give you all

by an open fire in front of his tent army is in a desperate plight, but he "Arnold is a sordid, selfish man and as the night fell. Solomon was filling will not come out and meet us in the a source of great danger to our his pipe. He swallowed and his right open. He continues to lean upon the cause," said the governor. "He is vain eye began to aim. I knew that some strength of the hills. But there are and loves display and is living far highly important theme would present- indications that he will be abandoned beyond his means. To maintain his ly open the door of his intellect and by his own army."

privateering and speculation, and , "'Jack, I been over to Albany,' he none of it has been successful. He is said. 'Had a long visit with Mirandy

York at the first opportunity so that ers different types and sizes of loops we may begin our life together as soon have been used, ranging in size from as the war ends. And now, whatever small coils one inch in diameter, honeycomes, I would wish you to keep these comb colls and retriving coils of varithoughts of me: I have loved you, but ous tuners up to massive single-turn there are things which I have valued loops measuring 10 feet on a side. above my own happiness. If I cannot have you I shall have always the memory of the hours we have spent together and of the great hope that was

CHAPTER XXVI

mine."

Arnold and Henry Thornhill.

Margaret and her mother returned to England with David Hartley soon after Colonel Irons had left France. The British commissioner had not been able. to move the philosopher. Later, from was impractical for home use." There type and, while it requires more room London, he had sent a letter to Frank- are, however, smaller and more con- to set up. Is claimed by many enlin seeking to induce America to desert wenient sizes to handle which will give gineers to be more efficient than the her new ally. Franklin had promptly very good results. answered:

history of diplomatic intercourse. Bishop of St. Asaph, and by him delivered. Another letter, no less vital to the full completion of the task of Removing Transformers these pages was found in the faded packet. It is from General Sir Benjamin Hare to his wife in London and 4780. This is a part of the letter:

for years and as the sea is, for a time, quite safe, I have resolved to ask you and Margaret to take passage on one of the first troop ships salling for friend Sir Roger and his regiments will be sailing in March as I am apprised by a recent letter. I am, by this post, be over now if Washington would only

(TO BE CONTINUED.)

City of Capua

Best Type of Loop.

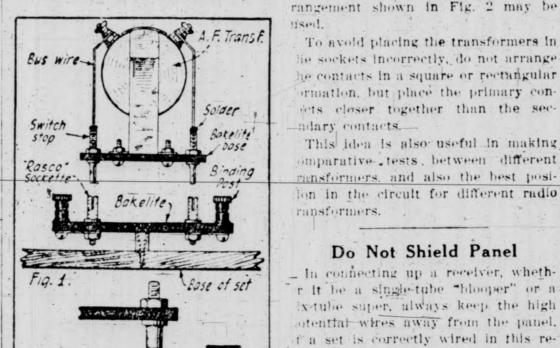
Experiments proved that the best obtained with an outdoor aerial meas- by means of a .001 variable condenser., it in a loud, folly way, uring 75 feet long.

Q

"I would think the destruction of rimenter an idea of types of loops waves measures four feet on the arms, our whole country and the extirpation which can be constructed at a very the ends of which are provided with of our people preferable to the infamy small cost. Figure 1 shows the loop bakelite or other insulating material of abandoning our allies. We may used in the Sleeper Monotrol receiver. in the slots on which are wound 10 lose all but we shall act in good faith." The crosspieces measure 27 inches, or turns of loop wire, five on either side Here again was a new note in the 1312 inches on a side. It is wound with of the lower upright support. Like the 10 turns of standard flexible loop wire other types, it is tuned with a variable Colonel Irons' letter to Margaret spaced one-half inch apart, the outside condenser and is recommended highly Hare, with part of which the reader turn measuring 18 inches. It is pro- for use with supersensitive_receiving is familiar, was forwarded by Frank- vided with a set of taps, which are con- instruments, owing to its large dimenlin to, his friend Jonathan Shipley, nected to the 2d, 4th, 6th, 8th and 9th sions - New York Evening World.

From One Set to Another prevent reversed connections as the

.This article is a description of a is dated at New York, January 10, method whereby the formerly immovable A. F. transformers in a receiving "I have a small house near the bar- set can be moved from one set to an formica or bakelite cut slightly larger racks with our friend Colonel Ware other as quickly as a vacuum tube and than the transformer bases. On each and the best of negro shaves and ev- without disturbing any wiring, or of these are fastened four binding ery comfort. It is now a loyal city, loosening and tightening any nuts or posts and four "Rasco Socketter secure from attack, and, but for the binding posts. This arrangement (small size). If the "Sockettes" cansoldiers, one might think it a provin- makes the purchase of more than two not be obtained, cord tip jacks which cial English town. This war may last, or three transformers unnecessary, no will accommodate stop pins or the ar-



and static disturbances travel in a sake. Whether the American species it will pick up a minimum of static not known. WHYPS.

The crossarus of the loop measure mon use throughout New England, altype of loop for use on the broadcast- 18 inches each and the outer frame- though in other sections the plant is ing wave lengths measured about 81/2 work pieces measure 1312 inches each, usually called arbutus. The true arfeet on a side and consisted of but a Thirteen turns are made, which are butus is also an English species that single turn of No. 18 green and yellow spaced three-eighths of an inch apart. Is not even closely related to our beausingle conductor-lamp cord. This loop C-shaped brass angle pieces are tiful plant. was tuned by means of a ONNE variable fastened into the corners of the outer low loss condenser and the results ac- frame, which serve to support the innercomplished by it fully equaled those crossarms. The entite loop is tuned his mind gets along better by doing

Still another form of lours is shown Owing to its awkward dimensions it in Figure'3. This is known as the box fordinary spiral or flat pancake loop. A The illustrations will give the expe- good size to use for the broadcast

l and E terminals are wired to cor-

responding contacts on the bases to

transformers are moved from socket to

The sockets consist of pleres of

To avoid placing the transformers in

ie sockets incorrectly, do not arrange

he contacts in a square or rectangular

ormation, but place the primary con-

dets closer together than the sec-

This idea is also useful in making

omparative tests, between different

ion in the circuit for different radio

Do Not Shield Panel

socket.

more or less perpendicular path to it was named in tender remembrance of the adjustment of the pick-up coil can home ties in England, or in honor of be so arranged to pick up most radio the sturdy vessel that carried our waves, which is at such an angle that forebears safely across the ocean, is

The name Mayflower is still in com-

One who is determined to speak





When your child is constipated, billous, has colic, feverish breath, coated tongue, or diarrhea, a teaspoonful of genuine "California Fig Syrup" sweetens the stomach and promptly cleans. the bowels of poisons, gases, bile, souring food and waste. Never cramps or overacts. Contains no narcotics of soothing drugs. Children love its delicious taste.

Ask your druggist for genuine "California Fig Syrup" which has full di-_ In connecting up a receiver, wheth- rections for bables and children of all r it be a single-tube "blooper" or a ages, plainly printed on bottle. Mothix-tube super, always keep the high er! You must say "California" or you otential wires away from the panel, may get an imitation fig syrup.



a reprimand from the 'commander in to give up.'

stiver." fall.'

"This is alarming," said Jack. "My boy an ill wind is blowing on I inquired. us," the governor went on. "We have all too many. Arnolds in our midst.

deeply involved in debt. It is charged They ain't no likeller womern in Amer- . The city of Capua of ancient Italy that he has used his military author, iky. I'll bet a pint o' powder an' a opened its gates to Hannibal after the ity for private gain. He was tried by fish hook on that. Ye kin look fer 'em Battle of Cannae, 216 B. C., and the a court-marthal, but escaped with only till yer eyes run but ye'll be obleeged army there went into winter quarters. chief. He is thick with the Tories. "He lighted his pipe and smoked a in Italy, and Hannibal's army was He is the type of man who would few whiffs and added: 'Knit seventy greatly enervated as a result of its sell his master for thirty pieces of pair o' socks fer my regiment this residence there. When the Romans

"'Have you asked her to marry you?' C., they scourged and behended the

"'No. 'Taint likely she'd have me.' oned themselves before the surrender he answered. 'She's had troubles of the city. Only two persons, it is Our currency has depreciated until enough. I wouldn't ask no womern to said, escaped : one, a woman who had forty shillings will not buy what one marry me till the war is fit out. I'm' prayed for the success of the Roman would have bought before the war. diable to git all shot up any day. I arms, and the other a woman who had The profit makers are rolling in lux- did think I'd ask her but I didn't. Got succored some prisoners. The word ury and the poor army starves. The kind o' skeered an' skittish when we "Capua" became a synonym for luxury honest and patriotic are impoverished sot down together, an' come to think and self-indulgence.

Capua was the most luxurious city regained possession of Capua, 211, B. surviving .senators who had not pois



Brass wire spring

Arrangement for Quick Transfer of A. F. Transformers for Test.

matter how many different receiving sets the experimenter may use. The scheme, as can be seen from of the radio set. If the phones are poor the drawing, consists of mounting the it will not be possible to receive long transformers upon separate, identical distance stations, because the weak bases of bakelite or formica on which current that flows through the telefour contacts made from switch stop phone windings will not be strong pins are fastened. The contacts are enough to actuate a movement of the wired to the terminals of the trans- diaphragm. Be sure that the phones formers. If different makes of trans- are of good make and avoid disappointformers are used, be sure the G P B+ ment.

anel. It is not good practice to shield panel when not necessary, as the shield forms one plate of a condenser, with the wires that are not at ground potential as the other, and will result in broader tuning.

Buy Good Phones

The phones are one of the necessities uticura Send for Samples

Peterson's Ointment

"Please let me tell von." says Peterson, "that for instant relief from the misery of blind, bleeding or itching piles, there is nothing so good as Peterson's Ointment, as thousands have testified." Best for old sores and itching skin. All druggists, 35c, 60c.