the questions. Address your

The three tubes depend upon the

"A" battery for their filament cur

rent supply. Since each tube draws

approximately one ampere of cur

a 90-ampere-hour battery.

tubes themselves.

in previous articles.

mpanies.

HOOK-UP OF SHORT WAVE REGENERATIVE RECEIVING SET

No. 9 and No. 12-Audio frequency of a rise in positive voltage to the

ransformers.

No. 10 and No. 13—Amplifying drop in negative voltage to the low-

rent it would be well to have at least

One "B" battery is used for the detector tubes, while both "B" bat-

amplifying tubes-this is due to the

differences in the vacuum of the

The vario-coupler, variometers and

condensers can be made as explained

When completed this set should be as good as any sold by the leading

RADIO PRIMER

current, each complete change of di-

rection is called a cycle. For in-

stance, ordinary lighting current is

known as a 60-cycle current, that is,

it goes through 60 cycles of change

in one second. Each cycle consists

Radio Editor,-I have two vari-

ometers having 54 turns of No. 24

wire wound on centers 31/2 inches in

diameter. My variocoupler has 80

turns on the primary tapped every

ten turns. The secondary has 50

turns of No. 22 wire wound on a ball

three inches in diameter. Will my

set receive Toronto concerts, and

With your outfit the primary tuning depends on the size of your aerial. The secondary circuit of your

tuner should give a range from about

amplifier, might bring in Toronto

est point and return to zero.

Amateurs are requested to make their queries as brief as possible to

By the Radio Editor. transformers with a core, primary ONE of the best radio receiving and secondary windings. But they are, of course, much smaller in size,

he doesn't want to make them, at a teries or 45 volts are used for the

communications to the Radio Editor, The London Advertiser.

facilitate the publication and answering of

regenerative set with a two-step

With this set greater distance can

Its\*cost ranges from \$210 up. But

my amateur can assemble the set himself by purchasing the parts.

cost of less than \$110. This includes

the price of batteries, tubes, phones

Rig up, according to the diagram

1-Primary of the vario-

and everything from the antenna

be covered in receiving, and greater

signal strength obtained.

down to the ground.

The Hook-Up.

#### ADVENTURES OF THE TWINS

KING VERDO'S PALACE [By Olive Roberts Barton.]



"Will you tell us which of the buildings is King Verdo's palace? Nick asked one of the queer people.

THE white dove flew ahead and Nancy and Nick followed along voice so low they could scarcely the nice green path. The sky was hear. blue and birds were singing every-where. It did seem as though the Twins by Twelve Toes, the wicked ish eyes, and having beards as green old Sorcerer, was broken.

At last they came in sight of a balt Town had been blue.

"Yonder is Verdure Ville," called back the dove. "That is where King hall soon be decided which is the it.' andsomer, King Verdo of the green beard, king of the Korsknotts, or King Indig of the blue hair, king of

the Diddvevvers.

Princess Therma, isn't

Funny people began to appear on the road-all of them staring hard pell of evil magic woven over the at the strangers, with queer, green-

as wire-grass. "Will you tell us which of the which was just as green as Co-Town had been blue. building: is King Verdo's palace?" Nick asked one of the queer people. "It's the handsomest house on the handsomest street in the handsomest

Verdo of the green beard lives. All city of the handsomest country in of his subjects, called the Kors-the world," was the modest reply. knotts, have green beards, too. It 'Go right ahead. You can't mistake So the three of them kept on. Beauty is all a matter of opinion,

but if anyone had asked the Twins what they thought of Verdure Ville The Twins thought that the white when they came to it, they would dove's voice was sadder than ever as have said it was the ugliest city in the world and that King Verdo's "And the one who wins is to marry palace was the ugliest house in it.

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retains its original 100 per cent. goodness till the last ounce is used. Carbonating prevents causes of deterioration. Rich in indispensable vitamines. 'Phone your grocer.

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Headache Neuralgia Lumbago

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Ask for Eddy's "Silent Fives." THE E. B. EDDY CO., LIMITED . HULL, CANADA



(Continued From Our Last Issue) "Both?" They stared at him. Thayer nodded, still looking at the floor, his tongue licking suddenly

"Yeh, both of 'em. One brought on the other. Mrs. Renaud and John Corbin-they called him Tom Langdon back east."

CHAPTER XXI.

T was staggering in its unexpectedness. A gasp came from the lips of Barry Houston. He whirled excitedly and grasped the nearest on-

"Go get Medaine Robinette. Hurry! Tell her that I have found the proof. She'll understand."

Then, struggling to reassure himself, he turned again to the prisoner. Two hours later, in the last glint of and I knew I was safe, that Houston day, the door onened, and a woman would be accused." day, the door opened, and a woman came to his side, where he was finishing the last of many closelywritten sheets of paper. He looked up at her, boyishly, happily, Without waiting for her permission, he grasped her hand, and then, as though eager for her to hear, he turned to the worn-faced man, now slumped dejectedly in his chair. "You understand, Thayer, that

this is your written confession?" The man nodded. "And you are willing to sign it?" "I'd want to know what I was sign-

"Certainly. I intend to read it to u-so that all witnesses may hear it. It is then to be filed with the district attorney."

A pause. At last: "'My name is Fred Thayer. Until year ago I had been employed by ne Empire Lake Mill and Lumber Company as superintendent, beginning with it when it was first started by Mr. Houston of Boston.

'I tried two or three times to get him to sell out to me, but we couldn't get together on the terms. He al ways wanted cash, and I couldn't furnish it. About this time a nephew of his named Thomas Langdon' came out here, under the name of John Corbin. He had been a black sheep and was now wandering about

the country.
"Then a woman came out here an Agnes Jierdon, a stenographer, on her vacation. I met her and learned that she was from Boston." A slight pressure exerted itself on Houston's arm. He glanced down to see Medaine Robinette's hand, clasped tight. "She spent nearly the whole summer here, and I made love to her. I asked her to marry me, and she told me that she would. I wanted to use her—to get her in Houston's office. I wanted to find out what was going on, so that I would know in advance. At the end of her vacation, she went back to Boston and got a job with Houston as office clerk. Almost the thing that she wrote me was that the old man was thinking about selling out to some concern back east. "'It made me desperate. Then I cought of Ba'tiste Renaud.'"

big French-Canadian moved closer to hear again the story of a murder. But the sheriff motioned him back. The emotions of the old trapper were

had always talked about how rich he lived with her there. About ten days butter. These sandwiches are excelwas. There was a saying that he didn't believe in banks and that he kept more than a hundred thousand dollars in hts little cabin. At this time, both he and his son were away at war, and I thought I could steal this money, place it in other hands, and then work things so that if I did get noid of the mill, people around here would merely think I truth, so help me God."

lived with her there. About ten days dago the baby died, while I was late I was late I was ago the baby died, while I was late I was late I was ago the baby died, while I was late I was la around here would merely think I truth, so help me God.' had borrowed the money and bought had borrowed the money and bought the mill with it. By this time, a cousin of Miss Jierdon's, a fellow named Jenkins, had gotten a job named Jenkins, had gotten a job fession, page by page. Then came with Houston and was working with her, and, of course, I was hearing her, and, of course, I was hearing straightened, to find a short, bulky straightened, to find a short, bulky straightened to find a short, bulky straightened to find a short, bulky straightened to find a short bulky straightene everything that went on. It looked like the deal was going through, and "Well?" guestioned that person. " it forced me to action. One night I guess it's up to me. I—I haven't got watched Mrs. Renaud and saw her much chance against that." leave the house. I thought she was going to town. Instead, after I'd gotten into the cabin, she came back. burn drew a nervous, sweating hand surprising me. I killed her with a

"Easy, Ba'tiste. That's the way you gave it to me, isn't it Thayer?"

Again the door of the tiny lobby pened and closed, and a form edged forward-Blackburn, summoned from

"When I found the deed box there was only ten thousand dollars in it instead of the fortune that I had supposed was about to take it out and stuff it into my pocket, when I heard a noise outside the window. I pushed the box under my coat and ran out the back door. The next day, Corbin—or Houston, free with a freedom Langdon-came to me and demanded his share of what I had stolen. He said that he had seen me at the deed



BEAUTY OF THE SKIN

is the natural desire of every woman, and is obtainable by the use of Dr. Chase's Cintment. Pimples, blackheads, roughness and redness of the skin, irritation and eczema disappear, and the skin is left soft, smooth and velvety. All dealers, or Edmanson, Bates & Co., Limited, Toronto. Sample free if you mention this paper.

box after I had killed the He threatened me again-and then suddenly, one day disappeared, learned that he had left for Boston. I knew what was up then: he was going back to tell Old Man Houston and try to step into my shoes when I was arrested. But I beat him there by going over the range in an automobile, and taking an train for Boston. I picked him up when he arrived and trailed him to young Houston's office. After that I saw them go to a cafe, and from there to a prize fight. I had my gun with me—I had made up my mind to kill them both. I thought Langdon had told. After the fight, they started out, myself in the rear. Young Houston had gotten a mallet from the timekeeper. Then they got quarrel, and my chance came. Houson ran. When he was well out of sight I crept up behind Langdon

Barry looked earnestly at the man before him.

on the head with it. He fell-

"That's all true, isn't it, Thayer?" "I haven't made any objection, have I?" came surlily.

and clubbed my revolver, hitting him

"I merely wanted to be sure. But to go on: 'Then I thought of a way don. Anyway, it ended with her testifying at the trial in a sort of negative way. I didn't care about thatit was something else I wanted. I wanted her to switch some papers on young Mr. Houston for me, and she bucked against it. Then I told her that she had done worse things, that she had perjured herself. She got her cousin to help her in the trans-fer of the papers; it was a lease and stumpage contract. The thing was illegitimate, of course. Shortly after that, young Houston came out here again, and I got her to come, too.

"'I had dodged marrying her. promising that I would do it when the mill was mine. In the meantime. I had hooked up with this man are rounded at the bottom instead of feta is the best material just for the Blackburn, and he had started a mill being pointed as they were last charm of its rustling buoyancy.

"I guess Miss Jierdon had gotten



"CERTAINLY. I INTEND TO READ IT TO YOU—SO THAT ALL
WITNESSES MAY HEAR IT."

Put in very cold water for two hours.
The petals will spring out and curl.
The petals will spring out and curl.

all, because when I forced her to the final thing of telling some lies about him to a young woman, she did all, because to the final thing of telling some lies about him to a young woman, she did all, because when I forced her to the final thing of telling some lies about him to a young woman, she did all, because when I forced her to the final thing of telling some lies about him to a young woman, she did licious sandwiches.

Radish Sandwiches. threatening never to see me again.
Our relations, while she had been at the Houston camp, hadn't been extended the Houston camp, hadn't been extended to the Houston camp, had been again.

Radish Sandwiches.

Wash the long white radish carefully and scrape lightly with a sharp knife. Let stand in very cold water for two not to be trusted. The recital went on:

"Everybody around this country in a little cabin in the woods. I had tween thin slices of white bread and the break that they should have been.

"Well?" questioned that person.

"What do you mean?" "Simply this," and the bulky Black across his brow. "I ain't above deal ing with crooks. I'll admit that. But I kind of draw the line at murder I'm in your hands, Houston. got a mill up there and it ain't worth the powder to blow it up—to me, anyway. But with you, it's different. f you want to make me a fair offer say the word, and I'll go more than halfway. What say?"

"Is tomorrow time enough?" "Tomorrow-or the next day. Suits

Then he went on, leaving only three figures in the lobby-the bent, silent form of Ba'tiste, Renaud, that he hardly believed could exist: and a girl who walked to the window and stood looking out a moment before she turned to him. Then impetuously she faced him, her eyes clasped, her whole being one of sup-

"I'm sorry," she begged. you—will you forgive me?" Boyishly Barry Houston reached forward and drew away a strand of hair that had strayed from place, a spirit of venture in his manner, uoyant tone in his voice. "Say it again. I like it!"

"But I am-don't you believe me? "Of course. But then-I-I-Then he caught her hands. "Will you go with me while I telegraph? he asked in sudden earnestness. want to wire-to the papers back in Boston and tell them that I've been vindicated. Will you-?" "I'll be glad to."

"They went out the door together Houston beaming happily downward the girl close beside him, her arm in his. And it was then that the features of Ba'tiste Renaud lost their gravity and sorrow. He looked after them, his eyes soft and contented Then his big hands parted slowly His lips broke into a smile of radiant

(THE END.)

### A Flower-Like Charm To Petal Frocks



THE clever girl who chooses such season a charming dancing frock as this could turn into almost any this could turn into almost any and the gown is sleeveless, of course, sort of flower-excepting, of course, for evening wear.

a wallflower. It's one of the daintiest of evening els is the only finishing needed, undresses with its slightly bloused bodice and the long petal panels that flower to splash across the side

SISTER MARY'S KITCHEN\_

### RADISHES



LE radishes have water, add 1 teaspoonful of salt and real food value boil half an hour. Drain from water, muscle building saving 1 tablespoonfuls for the sauce. in a muscle building vay they do have a listinct place among the mineral and ballast foods. The constituents of the radish sate much the same as the turnip.

If you would make radish posies to serve with the salad at a "party," here is the

with the salad at a ''party,'' here is the are baked.
way to do it.
The long The long white radishes may be

Choose round red radishes, not too big. Wash carefully and cut off the tops to within three-eighths inch from the radish. Make six cuts from the root end of the just through the red skin and be sure that the incisions meet at the root end Peel each petal-shaped section back as

to thinking a little of Houston, after back. Serve on the salad plate with

salt. 1/8 teaspoon pepper, 4 tablespoons buttered crumbs. Wash radishes carefully and cut off

every bit of stem. Cover with boiling



causes this hostess no worry, because she wisely keeps on hand several tins of the delec-table KING OSCAR Sardines,

as well as KING OSCAR Kip-



Cuticura Soap -Imparts The Velvet Touch Soap, Cintment, Tulcum Mc. each, Sold every wher Can, Depot: Lymna, Limited, St. Paul St., Mentrus



When your child is restless, peevish, sleepless, or when conravages of worms and that the little one's strength is being sapped and undermined. Miller's Worm Powders get promptly at the root of the trouble and restore the digestive organs to a healthy condition, Sold by all drugdists. Picot edging on the neck and pan-

less one wants a single gorgeous

No. 15-Head phones shunted by fixed condenser. No. 16 and No. 17-221/2 volt "B" batteries

ing tubes

No. 18-A six-volt storage or "A" tube detector and two-step amplifier what is its wave length range?

VITH TWO-STEP AMPLIFIER.

No. 3-Variable condenser in series

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No. 7-Plate variometer or tickler.

No. 8-"A" battery rheostat con-

trolling current flowing to the fila-

No. 11 and No. 14-Rheostats con-

rolling filament current in amplify-

No. 2-Secondary

No. 4-Grid variometer.

No. 6-Detector tube.

with the antenna.

ourself, do not try to construct the 200 meters to 750 meters. Yes, your transformers, tubes, tube sockets, set, when used in connection with a head phones or rheostat. It is good andion detector and two step cheaper to buy these parts. The transformers are similar in concerts, which are broadcasted on construction to the large power the 450 meter wave length.

LOUIS JOSEPH VANCE

Author of "The Brass Bowl," "The Black Bag," etc.



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