

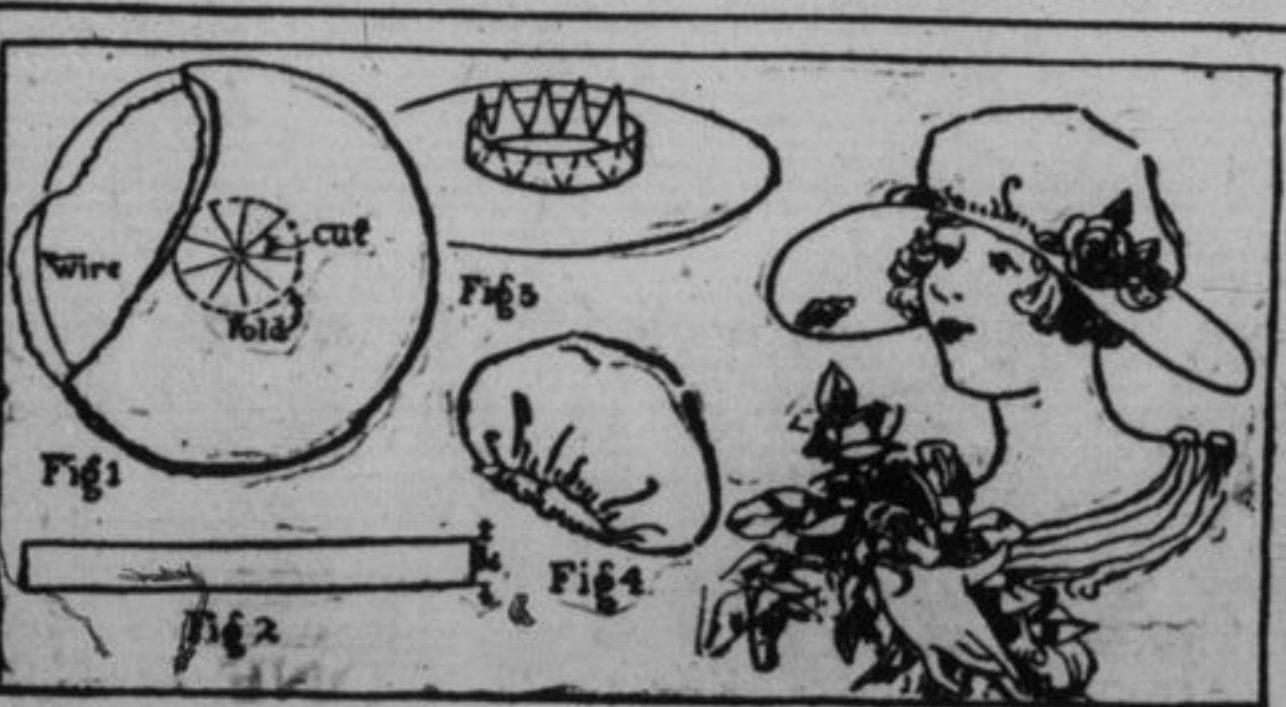
SCHOOL STUDY SPORTS

THE JUNIOR BRITISH WHIG

BIGGEST LITTLE PAPER IN THE WORLD

HUMOR PLAY WORK

CREPE PAPER MILLINERY



BY FLORENCE WINE

A "picture" hat to match your organdy dress is just the thing to start off the summer days. It is the "summer" outfit, you could possibly wear. Made of crepe paper and trimmed in flowers of satin ribbon or paper in a contrasting color, the hat will be right at home at a garden party or any of the summer "doings" which call for an organdy dress.

To make the hat you need one fold of the crepe paper, two No. 15 wires, which are extra heavy, one spool of fine tin wire and one piece of cardboard.

Forming the Circle Now that you have all these materials together, let's begin. First, join the two wires to make a circle. You will have to decide yourself how big around this circle should be. It all depends on how large you want the brim of your hat. The wires may be joined together with the fine wire, winding it around so that they will stay together firmly.

Cut the circle of the crepe paper just one inch larger in circumference than the circle you made with the wires. To cut the paper out, you can lay your wire circle flat on the paper and mark around it a circle one inch wider. Paste the wire and lay it on the circle of paper, folding over the extra inch of paper, just as shown in figure 1.

Cut the top circle for the brim next, allowing a quarter of an inch for turning. Put paste on the cord wire and place the top circle on it, making the edges fit together smoothly, the way it does in figure 1.

To Make the Crown Now that you have completed the brim, put it aside for a while and start on the crown. Cut from a light-weight cardboard a headband two

inches wide and in length equal to your head size. This band is shown in figure 2.

Fasten the two ends of the band together with paper clips or gummed tape. Lay this headband in the center of the brim and cut the crepe paper into diamond shapes and paste to the headband, as in figure 2. This holds the brim firmly to the headband.

For the crown, cut a circle of the crepe paper about 54 inches around. It may have to be a little larger or smaller to fit your head size. You can figure this out yourself. Gather the crown at the headband, as shown in figure 2. Then fasten the crown and the headband together.

How to Trim Now your hat is finished, except for adding the trimming. You might make your hat in a contrasting color and have the trimming match your dress, or else do it the other way around. For a picture hat the best trimming is flowers. You may buy these, or make them yourself out of scraps of satin or some crepe paper.

If you wish your hat to last all through the summer, give it a light coating of liquid varnish such as shell or crystalline. You will find that you have a "regular" hat, very different from the flimsy paper hats you have made for masquerade parties or fancy dress programs. The others will wear as long as a cloth hat and will always look fresh and jaunty.

Why not make Paper Hats for the Church Bazaar this summer? These articles will furnish you with a number of pretty models that can be made in all the colors of the rainbow.

THE SHORT STORY, JR.

Miss Mourning Glory

Every one said that Wenona was a regular sprinkling can. She had pretty eyes and a pouting mouth, and on the slightest cause her mouth would tremble and her eyes would fill with tears. "I can't help it," she would say, "because I'm so sympathetic. I can't bear to have my feelings hurt or to see any one suffer."

"Humph," her grandmother would say. "I don't think it's tender-heartedness. She knows very well how pretty she looks when she's in tears." When Memorial Day came, Wenona was in her element. She was going to be in a decorative float that was to be part of a parade to the cemetery. She was dressed in a new summer dress, and her hair had never curled so prettily before.

When the float reached the cemetery, the girls in their gay dresses climbed out and began distributing their baskets of flowers over the graves. More than one person smiled tenderly to see the pretty girl with her eyes full of tears, as she carried an armful of roses.

"The day was not and Wenona sat down to rest near a grave in one corner of the cemetery, away from the crowd for a while. She happened to look over and saw a girl of about her own age sitting there with her chin in her hands, smiling at her. Wenona felt this was no occasion for smiling. She took out a handkerchief and wiped her eyes.

"The girl was all sympathy. 'Oh,' she said, 'I hope I'm not bothering you. Did you lose some one in the war, too? A brother, maybe?'" Wenona gulped and nodded, wishing she were so, and feeling dramatic.

"I suppose he was killed at the front," said the girl. And when Wenona nodded again, she went on, "I lost a brother, too. But I haven't

any reason for feeling so bad. It isn't as though it was so sudden. He came home, with his lungs bad, knowing he couldn't get well. And he didn't. But we had him with us again for a while and we were glad for that. Maybe you think it's funny that I can talk like this without crying, but you see we talked a good deal. I said he wanted me to be a 'mourning glory'—out the mourning and think of the glory. And I want to have a good cry I think or to cry the way he said it, and it isn't so hard, after all.

A flush of shame made Wenona's face scarlet. She dropped her flowers and hid her head in her arms. And that was the last of "the sprinkling can."

His Loss

Mike (after crawling out of a freight car): "There, I rode all the way from Milwaukee to Chicago on a carload of hard coal and there was a carload of soft coal right behind me and I never knew it."

RADIO EXPLAINED

BY E. H. LEWIS INSTRUCTOR NEW YORK Y. M. C. A. RADIO SCHOOL

FREE AND BOUND ELECTRONS.

In a previous article it has been pointed out that all kinds of matter, either in a solid, liquid or gaseous state, contain electrons. In all substances a large number of these electrons are very intimately associated with the central nuclei of the atoms. This is due to the attractive force between positive nuclei and negative electrons. A given positive charge on a nucleus of an atom can hold bound to itself only a certain number of electrons, normally. The sum of the negative charges of all the electrons associated with an atom equals the positive charge of the atom's nucleus. Also, these electrons are constantly in motion about the nucleus in a similar manner, as are the planets around the sun in our solar system. The sun is probably the positive nucleus and the planets are the negative charges if the solar system is considered as one atom of the universe. It is quite well known that the stars are suns around which the planets revolve similarly as do the planets of our system. Perhaps this force is what keeps the various systems from flying apart.

Gettling back to the tiny atom, however, it is seen that these electrons are bound quite closely to the nucleus of each atom by the attractive force. They are thus called "bound electrons." In addition to the bound electrons, there may be other electrons present which are not closely associated with any particular atom or atoms. They are free to move through the substance in the spaces between the atoms. These are called "free electrons." Good electrical conducting materials contain a large number of these free electrons, while those materials known as insulators contain very few in comparison. The quality of any substance as an electrical conductor depends upon the number of free electrons. Under certain conditions, these free electrons may move from one part of the conductor to another, and there is a drift of the negative charges. The drift may be comparatively slow, even though the cause of the drift may tend to make them move very rapidly. This might be compared with a number of billiard balls, all lined up on a table and the end balls being struck with a cue. The motion of the cue might be very rapid, but the motion of each individual ball would be slower, while the motion is being communicated through all the balls in the line to the last one.

APPARATUS AND DEVICES

By RALPH BROWN, RADIO ENGINEER

A NOVEL NEW FILAMENT RHEOSTAT.

When the "soft" vacuum tubes are used for radio detectors a very close regulation of filament current is usually required. Ordinary rheostats, unless equipped with vernier control, often do not give fine enough current control. This is because there is a decided

change in resistance when the contactor moves from one turn of resistance wire to the next. The changes of current are in jumps. The rheostat illustrated has the novel feature of giving the smoothest possible control with the greatest ease. It is known as a compression type rheostat. A column of specially treated graphite discs, assembled in a porcelain container, forms the resistance element. The resistance of the graphite discs varies with the pressure applied by



an adjusting knob and pressure screw. The resistance depends only upon the pressure applied to the column of discs, and since the pressure can be regulated to any desired degree the filament current can be adjusted to the smallest fraction without any disturbing noises in the lead telephones. There is no sudden current change nor any point just a little too high or too low. The rheostat gives its own vernier adjustment. The graphite discs are assembled in two small columns in the porcelain, the pressure screw acting on the disc through a cross piece or equalizer. A small spring lifts this pressure equalizer from the discs when the pressure is relieved, so that the circuit is opened and the filament lighting battery (A battery) is disconnected when not in use.

The same rheostat may be used with the ordinary detector and amplifier tubes, or it may be used without any alteration. The idea is not entirely new, but this is the first time it has been used in connection with filament rheostats. The construction is patented. As may be noted in the illustration, the rheostat may be easily mounted back of a panel in a cabinet receiver or amplifier. It takes very little space for mounting.

Will readers interested in these radio articles kindly communicate with the editor by mail?

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Finds New Way To Put On Weight. For The Firm Flesh of a Well-Built Body and The "Stay-There" Strength of An Athlete—Take MASTIN'S VITAMON TABLETS. Recommended by Physicians. "I Gained Eight Pounds in Two Weeks." "I have tried out your VITAMON Tablets with great success, and must say they are absolutely wonderful. You see I am in the ring for a living and must make weight at certain times, and in order to do so I must go in training. But I have discovered a new way to make weight, by using your tablets, which do so much good for a person's physical condition. I gained eight pounds in two weeks, which is much better than so much training to keep fit." (Name on file in our office.) As surprising as are the results reported above, thousands of men and women everywhere are obtaining equally wonderful benefits from the use of MASTIN'S VITAMON TABLETS. By increasing the nourishing power of what you eat and by acting as a general conditioner of the whole system, MASTIN'S VITAMON TABLETS often help to put on firm flesh and build up renewed energy in a remarkably short space of time. If you have lost weight, energy and ambition through sickness, worry and overwork, if you are nervous, sagged and all run-down, try MASTIN'S VITAMON TABLETS and watch the surprising improvement that may take place in muscle, bone and blood-building elements supplied in these tiny tablets. Beware of imitations, cheap substitutes and so-called "diet-tablet" tablets. MASTIN'S VITAMON TABLETS are fully guaranteed. Remember, you must get MASTIN'S to get the Genuine and Original VITAMON TABLETS. As all good druggists. THE ORIGINAL AND GENUINE MASTIN'S VITAMON TABLETS. If it isn't MASTIN'S it isn't VITAMON. The World's Standard—Used by Millions. "Distributor, Duncan-Kershaw & Co., 207 St. James St., Montreal, Canada." Never relate your misfortune, and never grieve over what you cannot prevent. Always try to look on the bright side of life and make the best of things. The best books are treasures of good words and golden thoughts which, remembered and cherished, become our abiding companions and comforters.

FIFTEEN BOILS ON NECK AT ONE TIME

Any one who has suffered from boils can sympathize with poor old Job. There was no Burdock Blood Bitters in those days, so Job had to suffer in silence. Now-a-days no one need endure the misery of boils. Boils are simply evidences of the bad blood within coming to the surface and just when you get rid of one, another seems ready to take its place and prolong your misery. All the poulticing and lancing you may do will not stop more coming. What you have to do is take BURDOCK BLOOD BITTERS and the blood will be cleansed of all its impurities, and then every boil will disappear. Mr. Roy McSwain, High Bank, E. B. I., writes:—"I was troubled with boils for some time, and had as many as fifteen on my neck at once. After taking one bottle of Burdock Blood Bitters they commenced to get better, and after I had taken two bottles I was relieved of them and felt much better. I think B. B. B. is a grand blood medicine, and can recommend it highly." For the past 45 years B. B. B. has been manufactured only by The T. Milbura Co., Limited, Toronto, Ont.

A REAL HAIR SAVER

If your hair is falling out, premature gray, brittle, lifeless and full of dandruff, quick action must be taken to save it. Get from any drug or toilet counter to-day a bottle of Parisian Sage and use as directed—there's nothing else so simple, safe and effective. "Before going to bed I rub a little Parisian Sage into my scalp," says a woman whose luxurious, soft and fluffy hair is greatly admired. "It keeps away all dandruff—my hair is never dry, faded or scraggly, but retains its natural color and beauty." Parisian Sage is inexpensive, and money refunded if not satisfactory. McLeod's Drug Store sells lots of it.

"TIZ" FOR SWOLLEN, TIRED, ACHING FEET

The minute you put your feet in a "TIZ" bath you feel pain being drawn out and comfort just soaking in. How good your tired, swollen, burning feet feel. "TIZ" instantly draws out the poisonous exudations that puff up your feet and cause sore, inflamed, sweaty feet. "TIZ," and only "TIZ," takes the pain and soreness out of corns, callouses and bunions. Get a box of "TIZ" at any drug or department store for a few cents. Your feet are never going to bother you any more. A whole year's foot comfort guaranteed. Gentleness is not weakness.

MAIN STREET The Story of Carol Kennicott By SINCLAIR LEWIS

She wasn't depressed even when she heard Mrs. Bogart observe, "Now we've got prohibition it seems to me that thoughts as we have, and I want him to develop them, not take Gopher Prairie's version of them. That's my biggest work now—keeping myself, keeping you, from 'educating' him." "Well, let's not scrap about it. But I'm not going to have him spoiled. Kennicott had forgotten it in ten minutes; and she forgot it—this time—

VII. The Kennicotts and the Sam Clarks had driven north to a duck-pass between two lakes, on an autumn day of blue and copper. Kennicott had given her a light twenty-gauge shotgun. She had a first lesson in shooting, in keeping her eyes open, not wincing, understanding that the head at the end of the barrel really had something to do with pointing the gun. She was radiant; she almost believed Sam when he insisted that it was she who had shot the mallard at which they had fired together. She sat on the bank of the reedy lake and found rest in Mrs. Clark's drawing comments on nothing. The brown dusk was still. Behind them were dark marshes. The plowed acres smelled fresh. The lake was garnet and silver. The voices of the men, waiting for the last flight, were clear in the cool air. "Mark left!" sang Kennicott, in a long-drawn call. Three ducks were swooping down in a swift line. The guns banged, and a duck fluttered. The men pushed their light boat out on the burnished lake, disappeared beyond the reeds. Their cheerful voices and the slow splash and clank of oars came back to Carol from the dimness. In the sky a fiery plain sloped down to a serene harbor. It dissolved; the lake was white marble; and Kennicott was crying. "Well, old lady, how about hiking out for home. Supper taste pretty good, eh?" "I'll sit back with Ethel," she said at the car. It was the first time she had called Mrs. Clark by her given name; the first time she had willingly sat back, a woman of Main Street. "I'm hungry. It's good to be hungry," she reflected, as they drove away. She looked across the silent fields to the west. She was conscious of an unbroken sweep of land to the Rockies, to Alaska; a dominion which will rise to unexampled greatness when other empires have grown

Reconstruction Hospital Saves Injured Workers

DR. CHARLTON WALLACE Surgeon-in-Chief, the Reconstruction Hospital. WITH almost a million American industrial workers each year injured seriously enough to cause loss of time, laboring people and employers are watching with interest the development of the first hospital wholly devoted to the treatment of industrial disabilities and diseases. This institution—the Reconstruction Hospital, of New York—has treated patients from thirty-three states in the past two years and in the opening quarter of 1922 had patients from ten industrial states. The hospital's objective is to rehabilitate sufferers from industrial injuries and diseases by use of methods successfully developed during the world war. "The Reconstruction Hospital is removing men and women from the compensational class and restoring them to the earning class," said Dr. Charlton Wallace, the surgeon-in-chief. "The first hospital in America to be dedicated wholly to the care and after-care of industrial disabilities and diseases, it meets a need which the annual loss in injured workers makes imperative. Full use is being made of the therapeutic advances made during the war. As a result, the Reconstruction Hospital is restoring disabled men to their working ability in from one-third to one-half of the time heretofore required. Misunderstanding goes on like a fallen stitch in a stocking, which in the beginning might have been taken up by a needle.



DR. CHARLTON WALLACE Surgeon-in-Chief, the Reconstruction Hospital.

Saves Time - Saves Health Here is a table drink made as quickly as you can pour hot water into the cup INSTANT POSTUM delights the taste, and causes none of the harm that often comes from tea and coffee. "There's a Reason"