

# POOR DOCUMENT M C 2 0 3 5

THE EVENING TIMES AND STAR, ST. JOHN, N. B., TUESDAY, FEBRUARY 27, 1923

## FIFTEEN MINUTES OF RADIO EACH DAY

By Edward N. Davis  
Formerly Technical Electrical Expert For U. S. Government

RADIO DICTIONARY  
Lesson No. 244

### ALUMINUM RECTIFIER

A rectifier, of electrolytic type, used for converting alternating current into direct current. A single cell consists of two plates, one being of sheet lead and the other of sheet aluminum, these plates being immersed in a saturated solution of borax. To regulate the potential of the alternating current applied to the rectifier a transformer is connected between the power line and the rectifier. The operation of the rectifier is dependent upon the formation of an insulating film on the plates which allows current to flow from the lead to the aluminum plate, but not in the other direction. This type of rectifier may be used for charging storage batteries and when operated in conjunction with a filter may serve as a source of plate power supply or to furnish power for the operation of a loud speaker.

### STATOR

The stationary member of an electrical device which possesses in addition a rotating element; for example, in the variocoupler, the primary, tapped, coil wound either on a tube or on a spherical form, is stationary and is known as the "stator." The secondary coil which may be rotated on a shaft in inductive relation to the primary coil, is known as the "rotor."

### ETHER

An invisible elastic fluid which is said by scientists to pervade all space and through which vibratory disturbances are transmitted. These vibrations may be light or radio waves and the extreme elasticity and conveying power of this medium permits these waves to be transmitted through it at the rate of speed of 186,000 miles per second or 300,000,000 meters per second.

### "C" BATTERY

A low voltage battery usually consisting of a number of small dry cells of the flashlight type. This battery is used for the purpose of maintaining the grid of the vacuum tube at a negative potential with respect to the filament. The battery is inserted in the grid circuit with the negative terminal connected to the grid and the amount of biasing potential impressed upon the grid may vary from 1.5 volts to 20 volts depending upon the operating conditions. This type of battery has a service life of six to ten months as it is not used as a source of current supply but merely as a means of obtaining a proper value of negative potential on the grid. When used in conjunction with amplifier tubes the "C" battery by preventing the grid from becoming positive at any time, secures amplification of the radio signal without distortion.

### DUPLEX RADIO TRANSMISSION

A system of radio transmission which permits the simultaneous and independent radiation of two messages from one antenna. To obtain this result two oscillating currents having different frequencies are caused to flow in the antenna and current in such a manner that there is no interference between them.

### ROTARY CONVERTER

An electrical device for converting alternating current into direct current or vice versa. It consists essentially of an armature connected on one side to collector rings and on the other side to a commutator, this armature revolving between electrically excited field poles. When supplied with alternating current through the collector rings and operated on a motor it delivers direct current. When used for converting direct current into alternating current it is known as an "inverted rotary." It has the advantage of performing in one machine the functions of a motor-generator which requires two machines.

### CASCADE AMPLIFICATION

A method of securing a high degree of signal magnification by amplifying the incoming wave through several vacuum tubes successively and thereby building up the intensity of the signal. A radio receiver consisting of three amplifier tubes and one detector tube is known as a three-stage (cascade) amplifier.

(All Rights Reserved by United Feature Syndicate. Reproduction Prohibited.)

### RECENT DEATHS

Francis Gilbert Ward Lansdowne. The death of Francis Gilbert Ward Lansdowne, son of the late Thomas and Eliza Lansdowne, occurred at Sussex yesterday after a lingering illness. He was a grandson of the late Major

John Caleb Ward and his death will be sincerely mourned by a wide circle of friends. He is survived by his wife and several nephews and nieces.

### 1923—AMDUR'S BARGAIN BULLETIN No. 7—1923

Special for Wednesday Only

Ladies' Tricotine Suits  
(Five Only)

\$29.75

Regular 1923 models, silk-lined and \$40 value. Unless there is a bargain, there is no bulletin.

Amdur's, Ltd., No. 1 King Square

## Syrup Pitchers

With Sanitary Covers  
Plain design of the best quality of Glassware made  
Also Glass Trays to Match  
**W. H. HAYWARD CO., LIMITED**  
85-93 Princess St.

### The Wonderful Burbank Tomato

**BURBANK'S TOMATO**—By far the earliest, smoothest, solidest, most productive and best of all early tomatoes; resists wilt and other tomato diseases better than most others. I. Root, editor of Bee Culture, states that he planted Burbank's Tomato seed when his other tomato plants were budding, yet his first ripe tomatoes came from the Burbank. Pkt. 20 cents, 1-4 80 cents.  
**FERGUSON'S UNRIVALLED ASTER**—The largest and most beautiful mid-season Aster. A superior race in every way. Flowers average 6 to 8 inches across, on stems 18 inches long. Mixed colors per pkt. 20 cents.  
**CATALOGUE OF QUALITY SEEDS ON REQUEST**  
DUPIY & FERGUSON,  
38-42 Jacques Cartier Sq., Montreal.

## POWERFUL FILM AT THE IMPERIAL

"The Sin Flood" Very Real, Very Artistic and Very Human—Comedy Also.

At last a photoplay has been made in which every element is of artistic excellence: story, cast, and production. In "The Sin Flood" produced by Goldwyn from "Syndafoden," a drama by the eminent Swedish author, Henning Berger, a giant stride forward in the art of the cinema has been taken. "The Sin Flood," which is now on at the Imperial theatre, is a photoplay that can successfully challenge the most artistic, the most realistic, the most human pictures that the screen has to offer. It is a step in advance and will be hailed in future years as one of the most important milestones in the development of motion pictures from a mere amusement to an art.

In the cast are such players as Helene Chadwick, James Kirkwood, Richard Dix, Ralph Lewis, Otto Hoff-



On what thank full relief!

It is the heartfelt cry of thousands who formerly suffered from foot trouble, but will now wear Arch Defender Shoes. Comfort—Scientific Arch Support—Style and Quality make Arch Defender Shoes supreme.

**ARCH DEFENDER SHOE**  
Sold exclusively in St. John by Watersbury & Rising, Limited.

### Alkali in Shampoo Bad for Washing Hair

Do not use prepared shampoos or anything else that contains too much free alkali, for this is very injurious, as it dries the scalp and makes the hair brittle.

The best thing to use is Multifold coconut oil shampoo, for this is pure and entirely greaseless. It is very cheap and beats anything else all to pieces. You can get Multifold at any drug store, and a few ounces will last the whole family for months.

Simply put two or three teaspoonfuls of Multifold in a cup or glass with a little warm water, then moisten the hair with water and rub the Multifold in. It makes an abundance of rich, creamy lather, cleanses thoroughly, and rinses out easily. The hair dries quickly and evenly, and is soft, fresh looking, bright, fluffy, wavy, and easy to manage. Besides, it loosens and takes out every particle of dust, dirt and dandruff. Be sure you get Multifold. Beware of imitations. Look for the name Watkins on the package.

man, L. H. King, John Stepping, Will Walling, William Orlamond, Darwin Karr and Howard Davies. All have been identified with exceptional screen performances in the past; and now they appear together in one of the most unusual stories.

No less a literary figure than Henning Berger, world-famous Swedish writer, is the author of "The Sin Flood," an original play, a version of which was produced in 1917 by Artur Hopkins under the title, "The Deluge." The theme of the play is human nature itself, and as the story develops, it unfolds a group of people bitterly quarrelsome and at odds with one another.

Caught by a cloudburst, they are gathered in a cellar cafe, and the conviction is brought home to them that they cannot escape alive. In this horrible predicament, with the water rising and death stalking them hour by hour, their bickerings decline to nothing as they realize that they cannot afford to meet their Maker with evil in their hearts and slander on their tongues.

A flash of heavenly insight illuminates the hostile group, and almost spontaneously they compose their differences, absolve one another from sin, and grow resigned in the face of an almost certain death. In their new attitude toward death, the antagonisms that filled their days are forgotten. Then a miracle happens. The impending doom is averted. They are granted life once more. What shall they do? Here the religion of brotherhood has been firmly implanted in their breasts? They are but humans; their worldly responsibilities call once more.

### It's Home Sewing Week Here!

The New Materials Are a Refreshing Sight to Winter-Wearers Eyes. We Are Anxious to Have You Look Them Over.

Home Sewing Week has been inaugurated at this store in order to give you the best possible opportunity to choose materials and accessories for spring sewing, from new and complete assortments.

The many beautiful fabrics assembled for this event conjure up a vision of fresh little frocks for children; crisp morning and afternoon dresses for grown-ups; not to mention the many interesting House Aprons, Blouses, Undergarments and Household Touches that make the summer months more enjoyable.

Fashion's edicts concerning new materials are beautifully portrayed in the new Gingham, Rattines, Voiles, Challies, Homespun and Wonderful Silk Weaves.

Trimmings Are New and Very Adaptable. Among the newest are: Swiss Allover for yokes and vests. Organdie Looping and Lattice Banding in all fashionable colors. They are especially good for summer fabrics. Children's Flouncings in 16 to 27 in. widths. Laces and Embroideries in all wanted varieties.

**PATTERNS**—Here you will find New Spring Numbers in "Home Journal" patterns. They represent the attractive new styles particularly suitable for fashioning the new garments for spring.

(First and Second Floors.)

### The Last Day of Our February Sales Offers the Biggest Bargains of the Season in Men's Furnishings

Quantities are limited but every item named in the list represents a big saving in price.

All Wool Half Hose in grey, black or heavy ribbed heathers . . . . . 55c pr

All Silk Neckwear in popular shape and assorted patterns . . . . . 75c each

Colored Negligee Shirts made from good quality cord cloth; full sized bodies . . . Sale \$1.19 each

Fleece Lined Shirts and Drawers—Big value . . . . . 69c gar

Heavy Ribbed Wool Shirts; large sizes only. Reliable make . . . . . 75c and \$1.00 gar

"Excelda" Handkerchiefs; mercerized and hemstitched . . . . . Sale 3 for 50c

Gauntlet Working Gloves made from durable horsehide . . . . . Only \$1.50 pr

Wood Motor Rugs with fringed ends. Can be put to many uses. Greatly Reduced. . . . . \$2.75 to \$11.50

Boys' Coat Sweaters—A few only. Particularly big value . . . . . \$1.25 each

Special Prices on Hand Bags, Suit Cases and Trunks

Tomorrow will be the last day for these big savings. There are many other sale items not mentioned here. Your immediate attention will be well worth while.

(Men's Furnishings, Ground Floor.)

## Manchester Robertson Allison Limited

KING STREET - GRANBY STREET - MARKET SQUARE

### All Women's Walk-Over Lace Boots

Values from \$10.00 to \$15.00, without any exceptions, have been placed on sale and marked at

## \$5.75

To Clear

There's Military heels, Cuban heels and Louis heels—Black and Brown, Gilt, Fine Kid, White Nubuck and White cloth. Among them there's the "Solida" model, that wonderful comfort fitting last, and also the renowned "Princess Pat" model.

Don't Miss This Opportunity. It's the chance of a lifetime to get the best at less than you usually pay for inferior goods.

**McROBBIE**  
Foot St. John 50 King Street  
Fitters

### Three Nicer Cloths For Fancy Workers

Allandale, Rena and Lucerne Cloth, in Natural and Ecru, and all of a more even weave than linen, bring with them new ideas for easy embroidery. Colored appliques, so quickly accomplished and showy, go better than ever. On edges many unusual effects are indicated for the "blanket stitch" or buttonholing in one or more colors while floral motifs show a marked preference for French knots in solid clusters in combination with French embroidery. Lazy daisy stitch appears in new guises, and, as it works up swiftly, it isn't long before the job is well done.

### Living Room Sets

Rena Cloth is hard to tell from real linen as you'll see when you look on a completed one with a life-size and brilliant-hued parrot adorning a pillow, and oblong scarf finished with four heavy tassels and embroidered in Belding's artful parrot—\$1.25 starts you on the two.

Don't Miss This Opportunity. A striking dragon-fly design, completed round the edges with silver thread in blanket stitch, all in rope silk. The stamped cushion, 95c; scarf, \$1.25; centre, \$1.65.

### Three Buffet Pieces, 65c.

A White Buffet Set on Linette Cloth submits a fruit basket pattern with appliques attached. You choose your own yarn colors to work out the fruit shades, and the complete outfit costs but 65c.

A 45 inch Luncheon Cloth of fine white linen, featuring a peacock, takes a satin stitch and eyelet embroidery combined, \$4.85 for this, \$1.65 for a Buffet Set to match, \$1.95 for scarf, and 38c. for centre doily.

The new uneven edge sets off a Centre and Scarf on fine white Crash, heavily embroidered in white artful and with arc-like appliques of a rich grape and foliage grouping. Soft lace trimming enhances the uneven edge. Centre, \$1.65; Scarf, \$1.25.

Cutlery Cases, used also for silver, have new forms, one of heavy satin lined in flannel is sewn in colors of mercerized or real silk to show the word "Cutlery" in a floral effect, 85c.

### Nursery Novelties and Towels

Peter Rabbit feeder bibs, one for every day of the week, look about as cute as anything with their droll pictures and subject of the day's work, 29c. Pink and blue applique and outline stitch on white Crash and edging buttonholed or banded.

Quilts the kiddies can do themselves, have nursery rhyme blocks set together with Chambray, 15c. each. A pillow and coverlet can be applied in pink or blue, one picturing "sleepy byes" and the other the restful end of a perfect day, 38c. and 95c.

Colored End Towels, stamped in Cotton or Huckaback, present charming novelties in French knots of natural colors—border pieces of pink, zig-zag hemstitch and crochet edge. Regular or guest size, 75c.

### Daniel Corner of King

## Formal Opening Tomorrow and Following Days of Model Hats

### MARR MILLINERY CO., LIMITED.

Distributors of Correct Millinery Since 1860

ST. JOHN. MONCTON. AMHERST

### TRUCK IN SKI RUNNERS TURNED INTO POSTOFFICE

Novel Device Overcomes Heavy Snows On Roads in Northern Part of Sweden.

A strange sight in Northern Sweden is a sort of traveling postoffice, consisting of a motor truck and trailer, mounted partly on ski runners and partly on tractor bands, and designed to negotiate the snow drifts in the country roads. The Postal Department of that country, after making preliminary tests, has just put this new vehicle into service, and if it proves successful it bids fair to revolutionize the mail-carrying traffic of the Northland.

The new omnibus differs from the usual passenger conveyance chiefly in the adaptability of the chassis. Thus, for the ordinary smooth road the weight of the car is supported by four ordinary wheels, of which two are di-

rectly behind and between the rear wheels, while the other four are arranged on either side of the bus, as to track with the rear wheels. For still rougher going these side wheels run on tractor bands, resembling those used on tanks during the war. And when snow would make the roads otherwise impassable ski runners are installed under the front wheels.

Besides handling mail and express packages this bus can also accommodate sixteen passengers. Most of the heavy mail is carried on the trailer. The car is electric lighted and electric heated, and it is considered remarkable that the motive power required comes from a 30-horsepower engine.

The general director of the Swedish Postal Department, Julius Juhlin, who is responsible for the innovation, re-