## THE "BEST"

Anti-Swell Anti-Pain Anti-Tired

Anti-Perspiring

Anti-Corn DOES ALL AND MORE THAN ANY OTHER FOOT POWDER 25 Cents

L. T. Best Druggist

### FOR SALE

\$1200 Frame, 6 rooms, toi-let, central, deep lot. 2200 Frame, 6 rooms, toi-let, electric light and

\$2200 Frame, 6 rooms, **PULLU** electric light, garden.

\$2600 Frame, 7 rooms, light, gas and furnace, central.

\$2800 7 rooms, frame, 3-piece bath, electric piece bath, electric

Bateman's Real Estate 1111 BROCK ST., KINGSTON Telephone 1925F.

### Genuine Amber Strings

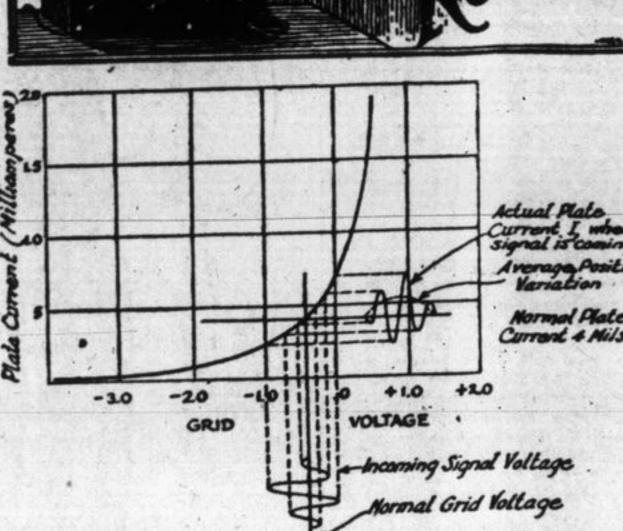
We are showing some very attractive necklets of

GENUINE **AMBER** 

The price of this very attractive Ornamental Bead is steadily coming down. Some of these Strings suitable for Young Girls, are priced as low as .... \$4.00

Others larger, lengths, \$25.00.

SMITH BROS King St.



#### How A Tube Detector Works.

1. By Grid Bias. do not seem to be acquainted with tector the tube will be when opthe fact that there are two common methods of obtaining detection method.

lating at super-audible frequencies. tion takes place. In order to make these signals oper-

Let us consider Fig. 1. Do not be alarmed by the appearance of apparently complicated "curves" cause they are really quite simple principles are grasped.

detector does.

In Fig. 1 we have a curve (A-B) which shows the effect of the grid voltage on the plate current. As you may know, the heated filament in a tube throws off electrons which act as "carriers" for the "B" batfilament. The voltage impressed on the amount of current that may flow creased pull on the headphone and our diagram shows a sample | the signal. curve. Thus it will be seen that with the grid about 1 volt "negative" the plate current will be about one-fourth of a milliampere; at "zero" grid voltage the plate current will be about halfway between .5 of fact, some hard tubes have a curve a milliampere and 1.0 milliamp.

sharp bend at the bottom. The Most readers of "Current Radio" sharper this bend is the better deerated as a detector by the grid bias

with a three-element vacuum tube, For detector action with grid bias por how detection in each case is we operate the tube just where the accomplished. It is the purpose of bend occurs, as shown. Now any this article to describe one of the incoming oscillations, such as shown. methods—detection by grid bias— by the "incoming signal" will vary and tomorrow we will describe the the grid voltage, and in doing so other-by use of grid condenser and will vary the plate current. But if leak-which is the more common the tube is operated on the bend, you can see, by projecting the signal Remember that the incoming sig- oscillations up on the curve, "A-B", nal is an alternating current oscil- that a kind of lop-sided amplifica-

The line designated "normal plate ate a pair of headphones, we must current" is the plate current that convert the alternating current into would maintain if the grid current direct current, and that is what the represented by the vertical line "X" remained constant. But the incoming oscillations extending on each side of this line cause—due to the bend in the curve A-B - the increases (I) in the plate current to to understand once the fundamental be considerably greater than the decrease (D) below the "norms!" line, This results in a resultant positive variation, shown by the dotted line,

and this is heard in the phones. In other words, the plate current both increases and decreases in the headphones, but the increase is so tery current from the plate to the much greater than the decrease that the general effect is that of an inthe grid has a very decided effect on crease, and this will exert an inover this carrier path of electrons, diaphram which can be heard as

Soft tubes usually have sharper "bends" than hard tubes, which is one of the reasons why a soft tube often makes a better detector when operated by this "bias" method. In which is almost a straight line, and Notice that the curve has a rather has little if any bend.

## A REDUCTION

The Civic Utilities reduced the price of gas for cooking a short time ago. We have a Gas Range to meet every pocket.

(A) 3 Burner Low Oven Gas Range \$22.00

3 Burner Low Oven Gas Rangelarge burners ..... \$30.00

3 Burner Low Oven Gas Rangelarge burners, N. P. trim .... \$33.00

4 Burner Low Oven Gas Range large burners, enamel top . . . \$40.00

4 Burner Cabinet Range, N. P. top 

#### McKelvey & Kirch Limited MULICIACY & DITCH, LIMITEU

leneral Contractors, Heating Specialists, Steam Fitters and Plumbers, Jobbers of Plumbers' and Gas-Fitters' Supplies, Stoves, Shelf, Heavy and House Furnishing Hardware, Tools, Offs, Be : Supplies, Sheet Metal and Tin Work; Electric work; Painting and Paper Hanging. /pecial

Good meals served to your liking. EVENING PARTIES given first class attention.

THE VICTORIA CAFE Sing Lee and Gan Lee, Props. Telephone 762.



#### 138 PRINCESS STREET

A Michigan youth dislocates his died shortly after at Simcoe.

Five men believed to be principals neck in diving in Lake Erie and in a race track swindling gang, are have been arrested in Puebla state, under arrest at Windsor.

#### RADIO BROADCASTING

tations and their broadcasting programmes which may be heard locally on Friday:

KDKA (920) Pittsburgh, Pa. 11.15 a.m.-Concert by Daug-

erty's orohestra. 2.15 p.m.-Baseball scores, iun

ngs by inning. 5 mm.-Baseball scores. 5.30 p.m .- Organ recital. 6 p.m .- Baseball scores; dinner

6.30 p.m .- "Let's hear some more from Uncle Wiggeley"—the children's period.

6.45 p.m.-News bulletins. 7 p.m.-Baseball scores. 7.40 p.m .- "Stockman" report or primary livestock markets, includ-

ing grain, feed, cotton, sugar, wool and produce. 8 p.m.-Concert by the KDKA Serenaders, saxophone quartette and the Davis Male quartette.

WGY (380) Schenectady, N.Y. 11.45 a.m.-Weather forecast. 1 p.m .- Music and household talk. 5.30 p.m .- Stories for children. 6 p.m.-International Sunday

school lesson. 7,15 p.m.—Baseball results. 7.30 p.m.-Concert by the New York Philharmonic Orchestra. 10.30 p.m.-Musical programme by pupils and faculty of Round

Lake, N.Y., Summer School of

WBZ (337) Springfield, Mass. 5 p.m.-Dinner concert by the W BZ Trio. 6 p.m.—Results of games played

tional leagues. 6.05 p.m.-Market reports furnished by the United States partment of Agriculture at Boston.

WJZ (435) New York City. 4.30 p.m .- Hotel Astor Organ recital direct.

7 p.m.-Ernie Golden's McAipin roof orchestra. ments of the day. 7.30 p.m.-Ernie Golden's McAl-

pin roof orchestra. monic orchestra,

air Towers orchestra. Complete radio programmes sold at Canada Radio Stores.

The slayers of Mrs. Rosalie Evans Mexico.

### WHY THE WEATHER?

DR. CHARLES F. BROOKS Secretary, American Meteorological Society, Tells How.

Gutters and Sewers for Downpours. In planning gutters and sewers for a town, the engineer must consider a number of points. He will study the rainfall records to determine the maximum fall which is likely to occur in periods of five or ten minutes, or an hour, and must also consider what per cent, of that will necessarily run off. Some cities in fairly arid regions may be afflicted with cloudbursts, and so may require larger gutters and sewers than cities where the average rainfall, though greater, is more evenly distributed. Thus Cheyenne, Wyoming, has gutters three feet deep. In towns of northeastern Porto Rico, where the rainfall is heavy, gutters are so deep that they have to be bridged for the entrance of every house.

Besides rainfall, the steepness of slopes and imperviousness of soils or surfaces are important factors in determining runoff, and hence the sewer requirements. W. E. Sullivan. of Cincinnati, has found that on a naked hillside area, the immediate run-off is usually 10 to 20 per cent. of the rainfall, the higher percentages prevailing where the hillside is quite steep with scanty soil covering underlaid rock. In a suburban district 30 per cent. of the water may fail to sink into the soil, while in a compact residential district, with a house on every lot, the run-off is found to be 40 per cent, of the rainfall. In factory areas as much as 80 per cent. of the rain must often be carried away by the sewers. Indeed, in a mercantile district of Cinby the Eastern, American and Na- cinnati it was found from actual sewer gagings that the run-off was 85 per cent of the rainfall. The increasing percentage of run-off as cities become built up overtaxes early sewer systems and makes largen ones necessary.

Brockville Water Safe.

Brockville, Aug. 7 .- Bacteriological report of the Brockville water 7.20 p.m.—Financial develop- supply, following an examination at the laboratories of the Provincial Board of Health at Toronto, fails toreveal the presence of any bacilli. 8.30 p.m.-New York Philher- The quantity of chlorine deposited daily-fourteen pounds, was con-10.30 p.m .- Harold Stern's Belle- firmed by the board and instructions a quantity.

> Come With Rotary. To Gananoque Friday night. Str. Waubic moonlight excursion. Soccer: All-Toronto 4, Corinthians 2; All-Toronto 1, Montreal 0.

PROBS:-Friday, southwest winds, mostly fair and warm.

# FRIDAY!

### AT STEACY'S

In conjunction with our August Sale of Home Furnishings we offer as an added feature for to-morrow morning-

### Double Discount Stamps!

From 9 to 1 O'clock

Shop early to-morrow and take advantage of this sale event as well as participating in the following special attractions.

# Genuine Gold Seal Congoleum Art Rugs

AT THE LOWEST PRICES EVER QUOTED!

50 of these handsome, guaranteed Floor Rugs so easy to clean and so fine in appearance. In a full range of sizes, patterns and colorings:

Reg. \$4.50 Size 3x9 ft. Size 4½x9 ft. Size 6x9 ft. Size 9x9 ft.

Sale Price \$3.48 Reg. \$6.75 Sale Price \$4.98 Reg. \$9.00 Sale Price \$6.95 Size 71x9 ft. Reg. \$11.25 Sale Price \$8.48 Reg. \$13.50 Sale Price \$9.98 Size 9x101 ft. Reg. \$15.75 Sale Price \$11.48 Size 9x12 ft. Reg. \$18.00 SalePrice \$12.98 Size 9x131 ft. Reg. \$20.25 Sale Price \$14.48 Size 9x15 ft. Reg. \$22.50 Sale Price \$16.98

Take advantage of these unprecedented low prices and secure your Fall requirements to-morrow.

## NEW FALL COATS

You need one of these Fall Coats right now for immediate wear, and you will find them perfectly suitable well into the winter. Beautifully made of lovely soft fabrics with and without fur. They are certain to appeal to women of discriminating taste.

AT POPULAR PRICES THROUGHOUT!

# STEACY'S - Lim

"Kingston's Shopping Centre"