Danghter Took Lydia E. Pink-ham's Vegetable Compound as Mother Advised

Something out of balance will affect he finest clock, causing it to gain or cee. The proper adjunction of many of the proper adjunction of the proper adjunction of the proper adjunction of the proper adjunction of the property of the prop

16799 DIED

in New York City alone from kid-ney trouble last year. Don't allow yourself to become a victim by neglecting pains and aches. Guard against this trouble by taking

GOLD MEDAL HARPLEM OF CAPSORS



Cuticura Soap -Is Ideal for The Complexion Soap 25c, Oletment 25 and 50c, Talente 25c.



Oysters Forever.

The New York conservation commission has been successful at the Cold. Spring harbor, Long Island, in the effort to produce oyster sets from artificially fertilized eggs, an achievement which has been striven for in one place or another for 40 years. This means that there will be little danger of exhausting the oyster supply, for by this method the oyster beds may be kept properly populated with growing oysters.





Always use the genuine
STEARNS' ELECTRIC PASTE incice peets to run from the building for i fresh air. Rate, mice, cockroaches, water ania destroy food and property and are discars.

of disease.

FOR USE—BETTER THAN TRAPS
irrections in it languages in overy box.

Tox site Sc. 15 or size \$1.60.
MONEY BACK IF IT FAILS

STATE NEWS IN BRIEF

Owosso—All farmers and business men of Shiawassee County have been invited to join in a picnic Aug. 17, at McCurdy Park.

McCurity Park.

Oadillac—More than 25 prizes were awarded in the mid-aumner exhibition of flowers and vegetables grown by school children herd.

Ironwood—A uniform feet to be charged by all physicians in Gogebic County has been adopted by the County Medical Society.

Benton Harbor—Waller Banyon, for 23 years an employs of the Benton Harbor potedfice, has been made post-master to succeed Harvey J. Campmaster to succeed Harvey J. Campmaster is succeeding the suc

master to succeed Harvey J. Camp bell.

South Haven-A \$60,000 refrigera-tion plant is to be erected in this city by the Fruit Growers' exchange, for use in storing crops during the sum

mer.
Howell—Livingston county farmers
gathered at the Howell fair grounds
for their annual piceic. A base bail
game betwen Holby and Howell was
the feature of the day.
Calumet—Emill Jackson, 20, and
Roy Dappt, 22 were killed hage when
a truck on which they were ruling was
all by a South Shore train. They
were workers for the road commistice. sion.

were workers not use towa commission.

Saginaw—Creditors of the Farmers' Exchange bank, Chesaning, to whom \$55,000 was owed, are being paid off at the rate of \$54 conts on a dollar. Byron G. Coryell, manager of the bank, is serving five years in Jackson prion for embezdenent.

Lansing—John G. Dean, mayor of Bay City, and state representative in the 1921 legislature, filed petitions with the department of state, qualifying him as a candidate for the Republican nomination for state senator from the twenty-fourth district.

Sturyle—Sturyle has the lowest

from the twenty-fourth district.
Sturgis—Sturgis has the lowest
bonded debt of any city in Michigan
with over 4,000 population, according
to a report from City Manager R. D.
Ballew. The debt-against the city is
only \$112,000, consisting entirely of
water works and lighting plant bonds.
Sturgis' assessed valuation is \$5,
000,000.

water works and lighting plant bonds. Sturits' assessed valuation is \$5,000,000. Ann Arbor—According to all indications Michigan university will have a larger encollment of women this coming fall than ever before in her history. Even at this early date all the dormitories and larger league houses are full, and most of the dormitories already have a considerable waiting list. Grand Rapids—Officials at, Butterworth hospitul announced that the abdominal operation performed on a haby girl, live hours old, the twin daughter of Mr. and Mrs. Cornelius Cole of Grandville, was a success. It is said the operation was the first to be performed in this city on a 'baby of that age. Filmt—Hundreds of reserve police, city detectives and regular officers swooped down on the Fair-tow better the filmt's and denuny of the city rum dives. In the first series of raids 300 were arrested, both as frequenters of the dives and as owners, still operators and sellers.

Northville—Ambrous Fritz of this place, an employs of the Globe Furniture company here, was injured seriously while adjusting a pulley. He silpped and the board with which he was at work in shoring over the belt-ing caught on the wheel and was thrown with such violence that it penetrated his left side.

Battle Creek—Marol and Guy Woodward, of Battle Creek, and Percy Sulfman, private in Camp Custer, are held following their arrest in connection with the said of monoshine to soldiers at the camp. They were caught by Captain Kelley below and the declared.

M. Chemes—Captain Eddie Rickenbacker, famous American see, in an address here the said of the Rickenbacker, famous American see, in an address here in the said of the Rickenbacker, famous American see, in an address here in the said of the Rickenbacker, famous American see, in an address here in the said of the Rickenbacker, famous American see, in an address here.

of liquor from the Wootwards, he declared.

Mt. Clemens—Captain Eddie Rickenbacker, famous American ace, in an address before the Klwania club, and that he set sure is assured. Captain Rockenbacker propheside that Detroit would be the bub of the airplane manufacturing world within the nort 10 years, and outlined a great growth for Detroit and its environs as the result of the growth of this new infant industry.

Pontiac—Police officers are seeking a small boy with an interest in babies. They believe the lad can abed light on the mysterious disappearance of two \$20 bills from the pures of Mrs. J. B. Thompson. Mrs. Thompson left her baby in its cab before the home of a friend while she visited a few minutes. She left her purse also. The boy stopped in passing and talked to the haby. On her return Mrs. Thompson missed the money. Allegam—More than 20 members of a rar and deather party that gaves.

Mirs. Thompson missed the money.

Allegan—More than 20 members of a tar and feather party that gave a coating of tar to Bert Lenters, a resident of Saugatuck, were assess will costs and fines totaling more than \$500 by Justice Herman Simonson, of Saugatuck. The inhabitants of East Saugatuck are nearly all either Hollanders or of Holland descent and hold their minister in high esteem. It is alleged that Lenters circulated stories derogatory to the pastor, which members of the congregation resented and so angered them, that they took into their own hands his punishment.

H.

VARIOMETER SET ON A VERTICAL PANEL

Method of Building This Receiver ant Setting It Up Ex-Hained in Detail.

The faith receiver described here is one using a vertoneter for the running circuit, and mounted on a vertical panel, 8; inches by 8 inches, instead of a horizontal base board.

To support the panel in a vertical position, a small base board fores inches yelde by six linches long and 12 to 5% of an inch thick is acrewed to the paiel.

The miterial required for the variometer fullows:

One pixe of bakelite or stiff card-

ometer fullows:
One picco to hakelite or stiff cardhoard tubing, three inches long and
3 14 inches outside dismeter; Cost
about five cents.
One picco to hakelite or stiff cardboard tubing 1.14 inches long and 2.
34 inches outside diameter. Cost
about five; cents.
100 feet of No. 28 DOC wire. Cost
about 25 cents.
Sty lonkes of 1.4 inche nutside dis-

Six inches of 1-4 inch outside dia-meter bruss tubing costing about 25

meter bepas tubing costing about 25 cents.

Four small blocks of wood as shown in Fig 1j.

One pariel 6 by 8 by 3-8 inca.

Eight small round-head 1-4 inch long brass wood screws.

One base board 4 by 7 by 1-2 inch.
One standard four-inch diameter dial and knob to take 1-4 inch shaft; costing about \$1.50.

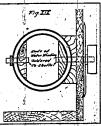
Seven binding posts.

Fig. 18 shows how the details of the varioneter are assembled.

The ritor is wound with 40 turns of the 1% 28 DCC wise, diveded into two groups of 20 turns, each symmetrical with respect to the center

bote should be such the title a croced at for the 14 sigh diameter (shart.) The winding on the state? A similar to that on the rotor. The a rea 400 total turns detided into the sections of 20 turns each. The beginning she the ending of the turns, the section of 20 turns each. The beginning she the ending of the ending of the rotor. The winding she the turns, the winding she like the trater, the winding on the stater should fall just above that on the rotor.

After the rotor and stator are wound, give them a thin cost of sheline and sillow it to dry thoroughly before attaching the wooden blocks. As seather and then give the assemble part a second thin chart of shelling part as econd thin chart of shelling the work of the same and then give the assemble part a second thin chart of shelling the two deligible and allow them to dry justil all the volatile matter has been driven



of. This will give the windings a hard faish that will not absorb molature, yet-protect their from mechanical injury and hold them in place.

The vertical panel upon which we set is mounted is aix inches high and eight inches long by three-eighths of a inch thick, it should be of a clear, close-grained wood that has been well direct to prevent warping. The panel is fastened to-the base board, which ig four inches by seven inches, by one-half inch thick, by means of the screws.

screws.

Before mounting any of the parts, the panel base board should be finished. Staining the panel dull

BETTER **ROADS**

STANDARDIZE BRIDGE DESIGN

No Sound Reason for Amount of Va elation in Specifications That Now Exist in Building.

Grapered by the United States Department Greater standardistants of practice in the design and construction of light was bridges in urged by the bureau of public roads of the United States Department of Agriculture! It is believed that there is no sound reason for the amount of variation in specifications that now exists and that it results in greater cost of bridges. State officials take the same view as the buy the American Association of State officials take the same view as the buy the American Association of State Highway Officials to consider the matter. A "Manual of Practice" is being prepared, which will "prepared with will will represent the best thought on the subject and which it is believed will be neverted by all the stafe highway departments. Not only will the adoption of jench a manual lead to the building of bridges of good design, but it will also make possible a saving in money, as bridge companies with only excluded upon to meet so much criticals in design.

INFORMATION HARD TO GAIN

Statistics Concerning Roads of Differ ent States in Some Cases Not Easily Obtained.

ent States in Some Cases Not Easily Obtained.

(Prepared by the United State Department With the annual expenditure for roads and streets in the United States approaching the billion-dollar mark, more accurate information and better means for obtaining it seem necessary, says the bureau of public roads of the United States Department of Agriculture. One thing very much needed is the concentration of all, sorts of information and statistic concerning the roads of the various; states is the state highway department.

Engineers of the department are now gathering complete information regarding the road mileage and expenditures at states much of the information desired is, easily obtainable from the state highway department. In the case of fown the figures were obtained sinest immediately, In other cases it has been necessary to sand out numerous questionnaires and some-



The Brotherton-Berlin Road in Penn-sylvania, Showing How it Appeared Before and After It Was Improved by a Concrete Road-Bed.

time of the rotor. Start 1:16 of an land inch in from the edge of the rotor and, wind on 20 turns, then, crossing over on the other side of the center line, wind on 20 more turns, so that the end of the second group of 20 turns will terminate 1:16 of an inch in from the of the second group of 20 turns will terminate 1:16 of an inch in from the of the turns will terminate 1:16 of an inch in from the edge of the rotor winding on the inside of the fortor winding on the inside of the Fig. 18, from pieces of 3-inch sort wood sid fasten them as shown dim metrically opposite each other on the linside of the rotor tube with sentil inside of the rotor tube with sentil holes, ole throws careevas. Data so the section of the tenths of the section of the section of the tenths of the section o times the information mas been ob-tained only after personal visits. In one state, 1800 questionpaires had to be sent out to bring in the needed figures, and in some it has been found that practically no records have been kept. For some of the counties in New Merico questionnaires had to be trans-

BRIDGES ON IMPROVED ROADS

Structures Less Than 18 Feet A Now Being Constructed, Say Engineers.

Engineers.

Few highway bridges with a width of roadway less than 18 feet are now being constructed on inproved roads, according to engineers of the bureau of public roads of the United States Department of Agriculture. In the past some 12 feet and a good many of 16-foot width have been constructed in an effort to economice, but it has proved shorstephed economy. Only one line of traffic can pass over a 12-foot roadway, and 10 feet of width-will not accommodate two lines in antery. Many of the states, such as Younghandth, have footing the property of the states, such as Younghandth, have footing the property of the states of the property of the states of the states

Material for Good Roads.
Federal aid roads, either completed
or under construction in the United
States at the end of the present fiscal
year, will require approximately 50,000,000 tons of stone and gravel for
the melting of 28000 miles af high

Farmer Begins to Compete. With smooth, hard roads from farm to town, and a big substar al 10-mile an-hour truck to haul grain or hogs in, the farmer will begin to compete





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w. E. WALDEN, & CO., Kest City, Mich.

"So you were out automobiling with
Jack Speeder resterday." How did you
along it?

"My dear, the experience was positively breathers. We made only one
remark each during the eatire ride. He
said, Jian't that a fine view sheed of
us? and I said indeed it was."—Boston
Transcript. Pranscript.

A Lady of Distinction Is recognized by the delicate fascinating influence of the perfume sile uses. A bath with Cutteurs Soap and hot water to thoroughly cleans the fores followed by a dusting with Cutteurs Talcum powder, usually means a clear, sweet, healthy skin.—Advertisement,

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"Yes, I put on my light underwear
and take it off."



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CRYSTAL SET IS ALL RIGHT

FigXIII

In its Own Way it is Quite as Efficient as the Vacuum Tube Outfit

The small crystal receiving set, which may be likened to the poor man's set," contrary to protest heard in some quarrers, is quite as efficient in its wiy as the much high exprised and elsboards vasuum all outsit. While trees set are unanyly lot granted or receive more the; fifteen or twenty-free miles, some; material has a merced in hearing affaits over

have succeeded in hearing number over a fifty-rile range. But the most amazing of all is the report which comes from a tetaller in New York, who says that he has succeeded the connecting up an amplifier with his fast. Despite the handleap of being entirely surrounded by steel sky scrapers, this set is in daily operation.

Radio; Warns of Thunderstorms. Detection of approaching thunderstorms is time to make necessary advantance in operation of electric service is a valuable practical use of the radib, according to the report of the electrical apparatus committee of the National Electric Light association of the electric through the electric Light association of the electric large association of the electrical apparatus and electrical apparatus and equipment more efficiently than any other agency, the report says.

SPARKS

in place of an aerial might at times be accused of "ping down on the Job."

The University of South Carolina, Columbia, S. C., is planning. The University of South Carolina, Columbia, S. C., is planning. The Columbia, S. C., is planning. The Columbia, S. C., is planning. The Columbia service in the Country and radio sergice is that country and radio sergice is that country and radio sergice is that cause of the radio.

The difference between party-line telephone service in the country and radio sergice is that cause of the radio.

A magnifier will fire radio on one objects in the case of the radio.

A magnifier will fire radio on one objects in the case of the radio.

A magnifier will fire radio to one objects in the case of the radio.

A magnifier will fire radio beginners should be will be grantened ability.

To tell of their issue of new bonds and quote prices on regular issues a farm in San Francisco has adopted the radio-phone. Besides furnishing the brone. Besides furnishing the brone brone with its branch house, in addition to having the regular telegraph wire.

The man who uses bedsprings in place of an aerial might at times be accused of "lying down on the job."