

take note of the objections entered, but that imamuch as all sides to the telephone case had been clamoring for the story of the inter-relation be-tween the Pacific company and the parent company, the witness would be permitted to proceed. Witness Tells Story. In 1881, at the time that the Pa-cific Telephone company entered into a contract with the American com-pany for the rental of instruments, Mr. Rhodes stated that there was no provision for the placement of tele-phone wires in a cable. Shortly after that period telephone wires were laid in iron pipe and later they were laid in iron pipe and later they were laid in iron pipe and later they were laid in the telephone business. Placed in rubber casements, but both of these methods proved unsuccessful. The witness traced the avolution and put into provisions for the placement of tele-phone wires in a cable. Shortly after that period telephone wires were laid in iron pipe and later they were laid in the telephone business. Another bureau is conducted for the purpose of collecting, analysing and purpose of collecting, analysing and

The witness traced the evolution of the cable for telephone wires going through the various stages, showing by his testimony that in 1888 the cable used could carry only 100 wires, and then gave very unsatisfactory service, while the latest development of the cable permits the carrying of 2424 wires and gives satisfactory service. War Causes Changes. The late world war caused many evolution distributing cording to the witness. But, although Mr. Rhodes held that this part of the legal depart-ment was of tremendous value to the subsidiary companies and saved them subsidiary companies and saved them a large sum of money annually, he maintained that the patent department of the legal bureau effected the



Basement-Final Clearaway of Summer Hats at half former Poplins prices. Excellent variety of 15 -[#] 14] om the small , neat cially priced for this sale, a yard \$1.12 bans to the large effects -\$3.98 Trimmed Hats \$1.99 TITTT -\$1.75 Large Size Bath Towels at \$1.25" \_\$4.98 Trimmed Hats \$2.49 -Hemstitched Huck Towels at only 35¢ \_\$5.98 Trimmed Hats \$2.99 -\$6.98 Trimmed Hats \$3.49 -\$7.98 Trimmed Hats \$3.99 "Woolnap" Heavy Blankets Special \$2.48 Third Floor-Take our word for it, these Blankets at above price are the best buy in Portland today! We could not secure them at the mill for so little maner. Splandid beaut Cotton Blankets of -\$8.98 Trimmed Hats \$4.49 Sale of 500 Men's Shirts Hat Trimmings At 1/4 Off **Basement Underprice Store** -This applies to our entire -An old-fashioned "grab-'em-quick" Shirt Sale that brings back memories Basement stock Hat Trimmings. -25c Trimmings now at 18¢ of pre-war days! We have planned to make this the biggest thing the -50c Trimmings now at 38¢ the mill for so little money. Splendid heavy Cotton Blankets of Basement Men's Store has announced for a long time. Over 500 Shirts in the famous "Woolnap" make. Plain tan and gray with fancy \_\$1.00 Trimmings now 75¢ the offering. Shirts of good quality percale from reliable makers. Soft and stiff cuffs and bordered ends. Size 60x80 inches. These are going out \$2.48 rapidly, so shop at once. \$3.50 and \$4.00 Blankets, at -Flowers, fancy feathers, fruits, there are all sizes in the lot from 14½ up to 17½-but not all sizes in each style. Sale, \$1.00 wreaths and other novelties. Women's Hose 2 Pr. Boys' Blouses for Bedding Dept., 3d Floor **Odd Lines** \$1 \$1 Undermuslins Basement Basement-Women's Lisle Basement-Blue chambray and fancy striped Percale Blouses Hose in black, white and in sizes from 6 to 12. On S1 special sale at 2 for only S1 brown. Medium weight and splendid quality. Spe- S1 cially priced, 2 pairs for S1 -Handbags, Purses- S1 odd lines, various styles S1 -ENVELOPE CHEMISE in -LACE CENTERPIECES in several styles and sizes. S1 On special sale today at many dainty styles, trimmed with laces, beading, etc. S1 Regular \$1.48 garments Silk Gloves, 3 Prs. "Notion Day" Bargain 1st Floor **Butter Boxes** \$1 Toilet Paper, 20 for -NIGHT GOWNS and Envelope Chemise of fine qual--\$1.25 Combination Garment \$1 48cBasement-Women's White ity materials. Regular **S1** to \$1.75 values; special **S1** and Hose Supporters, sizes 3 to Silk Gloves in the popular 13 years, on special sale at 89¢ Basement-20 rolls to a custwo-clasp style. A well-known -SILK CAMISOLES in -Phoenix Hair Pin Cabinets on make. Sizes 51/2 and S1 61/2. Special, 3 pairs for S1 tomer and no telephone or C. white, pink and combination special sale today at only 7¢ Basement-Glass Butter Boxes O. D. orders accepted. Good colors. Several styles. **\$1** On special sale today -Skirt, Trouser Hangers 7¢ -Uncle John's Thread, in collike above sketch. Keep butter -Women's Handker-chiefs, special, 12 for \$1 quality Crepe Toilet Pa- S1 per, special 20 rolls for S1 cool, sweet and wholesome durors, on special sale today at 5¢ ing the hot weather. Don't fail -CAP SHAPE HAIR NETS, light, me- S1 | -MEN'S BUCKSKIN GLOVES, outseam S1 dium and dark brown, blonde, black; 12 for S1 sewn, ball fasteners; slightly imperfect S1 to get one or more of 48c these! 1-lb. size. Special -Waterproof. Household Aprons on special sale today, only 49¢



-Novelty Dotted Voiles-very dainty ma-terial for frocks, blouses and other 90c wearables. On special sale, a yard -Imported Dotted Swisses of \$1.98 fine quality. Priced special, yard -Imported Embroidered Organ-dies-\$3.50 values; reduced to \$2.75 -Dress Voiles at 25¢, 38¢, 88¢ a yard. -Imported Eponge on sale at 1/2 PRICE.



The late world war caused many changes in the manufacture of telephone equipment, and caused a revolutionary change in the insulation of wire carried in cables. Manila rope paper was used to cover the wires. paper was used to cover the wires, but shortage of this paper caused the engineers to make experiments until they produced a paper made from spruce pulp which served as a satisfactory substitute. Inability to obtain diamonds with

Inability to obtain diamonds with which to gut fine wires used in mak-ing up coils caused the engineers a year or more of experimenting and study. Out of this study came an iron dust casing, made up of \$5,000,000,000 particles of dust to each coil, each separately insulated. separately insulated.

The improvements along this line, according to the witness, amounted to more than \$100,000,000. Development

more than \$100,000,000. Development of the duplex cables, made by the engineers of the American company, has already saved associate compa-nics \$7,000,000, the witness averred. When the witness told of the devel-opment of the loaded circuit patent, purchased from Dr. Micheal Pupine, professor of electricity at Columbia university, Assistant City Attorney Tomlinson interrupted to object, stat-ing that not only was this testimony ing that not only was this testimony immaterial, but that, in addition, it was not good grace for the company to tell about a patent that had been stoken from a "poor professor."

Big Sum Paid for Patent.

The witness, under direct question-ing by Attorney Shaw, stated that he had been informed that Professor Pupine had received between \$500,000 and \$1.000.000 for his patent, which came to the Bell interest undeveloped. The use of the carrier system, also known as duplex telephony, was brought out by the witness to show the effort on the part of the parent company constantly to improve tele-phone service. This particular serv-ice, he said, enables the use of one set of telephone wires, for four longdistance messages can be carried over the single set, simultaneously, in ad-dition to the original message. The same system permits the sending of ten telegraph messages over one set of wires at one time in addition to

the original message. This improvement, he pointed out, has saved the Pacific company the expense of constructing new lines between Portland and San Francisco to care for growing business, an ex-pense which is estimated by company engineers to be not less than \$1,000,company. 000. There are six carrier channels in operation at the present time be-tween Portland and San Francisco.

## Development of Wireless Factor.

The development of wireless telephony, as an adjunct to the land wirea, was explained by the witness, who said that the work of the engi-neers of his company had made it possible to provide telephonic com-

neers of his company had made it possible to provide telephonic com-munication over a telephone by radio from Washington D. C., to San Fran-risco, and thence to Hawaii, and also from Washington across the Atlantic ocean to Paris. Stepping from the department of research in the American company,

# Trained Attorneys Employed.

In this department, he said, trained attorneys were maintained to carry

from the manufacturers. While on the subject of patents, the witness denied most empratical-ily that the American company was ly that the American company was guilty of suppressing patents, saying that any such policy would be shortsighted and would cost the company large sums of money which might be onserved. Mr. Rhodes read an article written

in a technical journal some years ago relating to this subject and then read a reply from the commissioner of patents in which the latter told of the process of development certain

relating to this subject and then read a reply from the commissioner of patents in which the latter told of the process of development certain patents were undergoing in the lab-oratory of the American company, when as a matter of fact it was gen-erally supposed that the patents were being suppressed. **Easy Loans Are Made.** From the executive and treasurer's departments of the American com-pany come loans to the Pacific and other associated companies at low rates of interest, according to the witness, and in addition this depart-ment assists the subsidiary compan-ies in financing by taking its stock ies in financing by taking its stock without discount, and assisting in the sale of its securities. In addi-tion both these departments and the accounting department constantly give expert advice to the associated companies on matters pertaining to finances and records. Latest methods of handling traffic and every other detail of the traffic

department are handled for the sub-sidiary company by the department of operation conducted by the Amerompany. In outlining his story of service,

Mr. Rhodes made it plain that the services given to the Pacific and other associated companies was ad-visory and consulting and not superlean company. Likewise commercial departments of the associated com-panies are given advice by a staff of commercial engineers of the parent commercial visory, as has been intimated by hostile witnesses. Babcock Is Challenged.

In addition to these services, and a multiplicity of other services out-lined by the witnesses, the American company furnishes the Pacific com-pany all of its instruments, accord-ing to Mr. Rhodes. The parent com-pany teplaces and remains all instru-The witness held that selective ring-ing advocated by Major Babcock when he was on the stand for the city of Portland in the present case had not been developed to the point where it could be successfully operated. Attorney Shaw enjoyed a compara-tively easy time vesterday, for there tor. pany replaces and repairs all instru-leph-land pany and also furnishes special instruments required by operators and

### Photos Show Evolution.

Bandon

instruments must be junked, because of the inability to change the old instruments. The cost of this junk-ing, he said, was borne by the parent commany within the cost of this junkway, he will recommend that the a still which will be more of a

roads within the county. POWELL VALLEY WATER DIS-TRICT FILES LETTERS. FIRE DEPARTMENT POOR

Citizens Decide to Make Section Line Company Declared to Service More Efficient. Have Declined to Enter Into MARSHFIELD, Or., Aug. 9 .- (Spe-

Negotiation on Terms.

Copies of letters exchanged in an attempt to open negotiations for the purchase of the pipe line of the Sec-tion Line Water company were filed could be successfully operated.<br/>Attorney Shaw enjoyed a compara-<br/>tively easy time yesterday, for there<br/>were few tilts and the witness on<br/>the stand was his own. Incidentally.<br/>he celebrated the 45th anniversary of<br/>his birth yesterday conducting his<br/>case.ion of Horace Sykes, deputy state fire<br/>marshal, who made a visit to this<br/>section last week and found that con-<br/>dition to exist at Bandon.<br/>After discussing the situation with<br/>the business men and officials it was<br/>decided by the Bandon people to form<br/>a regular fire department and equip<br/>rooms for several of the fire engine is kept. Mr.purchase of the pipe line of the Sec-<br/>tion Line Water company were filed<br/>waster district. The letters showed<br/>for a price on the pipe lines of the<br/>powel valley district asked<br/>their property was not for sale.to protect the interests<br/>already established whe<br/>tase been made to freeze<br/>to install duplicate syste<br/>fusal of the Section Line<br/>water district. The letters showed<br/>for a price on the pipe lines of the<br/>powel valley district asked<br/>their property was not for sale.Wheeler County Bonds Sold.<br/>The county court of Wheeler county<br/>the celer county court of Wheeler county<br/>the county court of Wheeler county<br/>the county court of Wheeler county<br/>the county court of Wheeler county<br/>don had begun these precautionary<br/>these proceutionary<br/>the section has been made to freeze<br/>the county court of Wheeler county<br/>don had begun these precautionary<br/>the section has been made to freeze<br/>the protect the interests<br/>the interest county<br/>the section is<br/>marked the fire engine is kept. Mr.Commissioner Mann declared that<br/>where the fire engine is kept. Mr.<br/>Sourth BEND, WasiSourth BEND, Wasi<br/>to inter into negoti-

council supply the Powell Valley blessing than a curse. Dr. C. F water district with Bull Run water, Lauderdale of Portland has announced

> operating a peppermint still. The peppermint industry is a new one here and Dr. Lauderdale's still will help the ranchers profitably to dispose of their crops

WOMEN CONTINUALLY OVERDO

This applies to all women, regard-less of caste or color. The ambilious girl striving for school honors, the overworked housewife, the shop girl, girls in offices and stores, and the society woman, all climb too high, overtax their strength, and what folovertax their strength, and what fol-lews? Nervous prostration, sleepless-ness, backache, headaches, and the in-evitable weakness and aliments pecu-liar to their sex soon develop, which, unless checked, bring on more seri-ous conditions, and which often lead to operations. An efficient restora-tive for such aliments is Lydia E. Pinkham's Vegetable Compound, which is now recomplied from coast to coast

**BLACKHEADS SUR** 

YOU'LL GET RID OF

-5c Unique Hair Wavers 4c

-Elgin Maid Crochet Thread

in light blue only; dozen 29¢

-20c Kid Curlers, special 12¢ -15c Folding Wire Coat Hang-

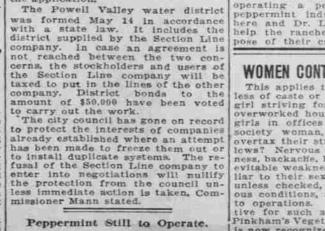
ers, on special sale today 12¢

-Spool Silk in black, white and

pink. 50 yards to a spool. 5C On special sale today, at 5C

-Dove Toilet Pins, special 4¢

There is one simple, safe and s way that never fails to get rid buckheads and that is to disco them. To do this get two ounces opprinkle a little on a hot, sprinkle a little blackhead with be surprised how the black heads have disappeared. Big black heads have disappeared big blackhead and the water of dust a disappear leaving the pores of the ak Finching and squeezing only can be blackheads so they we is to use the blackheads so they we is the disacheads so they we is the blackheads so they we is



C: 102.2

enter into negotiations will nullify the protection from the council un-less immediate action is taken, Com-

# Peppermint Still to Operate.

unless some effort is made by the water company to enter into negoti-ations or meet the water district half (Special.)—Pacific county is to have

that he will spend his month's vaca-tion at Scaview in setting up and operating a peppermint still. The according to the request made in the application. The Powell Valley water district