# SIX-DIGIT SYSTEM TO BE INSTALLED BY TELEPHONE CO.

### New Style Service Will Be Installed Within Next Few Months, It Is Announced.

Every Portland telephone user must learn more advanced methods of operation when the Pacific Telephone & Telegraph company completes its changes to give the city the "six-digit system" which is recognized as the most up-to-date telephone service arrangement for an exchange the size of Portland, according to officials of the company.

The officials have started classes to educate employes how to operate the new equipment, which is being installed at a cost of approximately $3,500,000, but a still larger task of teaching the public the facts about the rearrangement confronts the company.

Under this system, the manual and automatic methods of operation will be completely subordinated. Every telephone operator will have to understand the principles of both methods of operation to successfully complete a call.

For the present, the majority of telephone users will have manual telephones although the change in operation is a step towards the ultimate conversion of the entire telephone system to the six-digit automatic method of operation.

**NAMSE TO BE CHANGED**

After necessary equipment is installed and preliminary changes are made, the first step of which the public will have to take cognizance will be the changing of office names in the Portland exchange. This change is essential because of the all-important position the first two letters of each office name occupy in the making of telephone calls. Automatic offices will also receive names. The list of office names will appear as follows:

| Present name | Proposed name | Letters to be dialed | Directory listing |
|---|---|---|---|
| Broadway | Broadway | BR | BR oadway |
| Main | Main | MA | MA in |
| Marshall | Atwater | AT | AT watr |
| "A" | Beacon | BE | BE acon |
| East | East | EA | EA st |
| Sellwood | Sellwood | SE | SE llwd |
| Tabor | Tabor | TA | TA bor |
| Woodlawn | Walnut | WA | WA lnut |
| Columbia | Empire | EM | EM pire |
| Arleta | Sunset | SU | SU nset |
| Irvington | Garfield | GA | GA rfld |

All numbers below 1000 will be built up to four digits by prefixing zeros. Thus Main 21 will appear as MA in 0021 in the June, 1922, directory. The zeros must be called or dialed depending upon the type of telephone being used.

From this directory listing it will be impossible to determine whether a listed number is for a manual or an automatic telephone.

The various interchange methods which will be in effect with the new system follow:

**FOR AUTOMATIC USERS**

From Automatic to Manual—The number desired is dialed just as though another automatic telephone was being called, namely, dialing two letters and four digits.

When the first two letters of the office name are dialed the apparatus automatically selects a line to the office desired.

As the four numbers are dialed, switches are operated in the manual office storing up these numbers.

When the two letters and the four numbers are dialed a signal is lighted under the trunk upon which the call enters the office.

The operator then depresses a key associated with the trunk and the number called is displayed by a lamp called the "call indicator lamp." The operator then makes the connection to the number indicated by the indicator lamp.

**CONTINUES UNTIL ANSWERED**

The indicator can store eight calls or numbers simultaneously.

After the connection is made the ringing starts automatically and continues until the person called lifts the receiver or the person calling hangs up.

If the line is busy a distinct interrupted tone will be heard. This is known as the "busy tone" and is the indication for the caller to hang up and wait until the line is cleared.

From Manual to Automatic—All of the manual switchboards are to be provided with dial similar to those on the telephone instruments.

The operator will receive the call, make a connection to a trunk line going to the office desired and will then dial the four numerals.

The operator and the person calling will receive the "buay tone" signal if the line is in use and if not the ringing will start automatically.

**NEW INSTRUMENTS**

From Automatic to the Same Type of Instrument—The method is the same as at present. New instruments similar to the present manual telephone will be installed. Each will have a small dial on the base.

With this change, six turns will be made of the dial. Two of these turns will be for letters designating the exchange name and four will be numerals.

Three complete automatic offices will be in operation by the end of next year. These will be Garfield, Beacon and Sunset offices.

With the installation of the new six digit automatic office placing the exchange on a new basis, a number of changes in the dialing codes will be necessary so that Portland's codes conform with those used in other coast cities. The new lineup will be as follows:

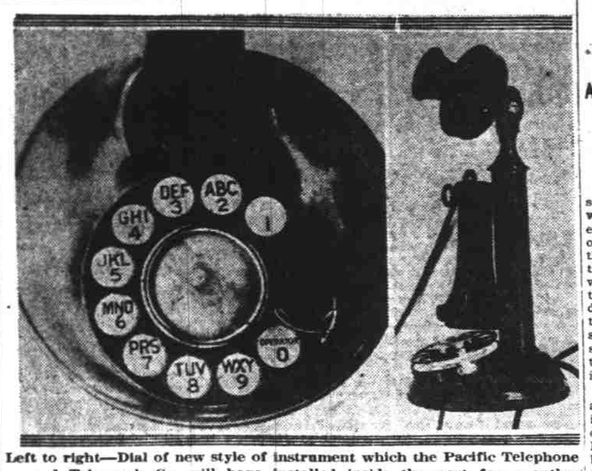
| | Proposed code | Present code |
|---|---|---|
| Zero operator | 0 | 7 |
| Pacific Long Distance | 211 | 9 |
| Two number toll (Pac. num. service) | 311 | 569 |
| Information | 411 | 563 |
| Complaint | 711 | 564 |
| Northwestern Long Distance | 811 | 0 |

The Pacific and Northwestern long distance changes in dialing code were made with the issue of the June 1921 directory. In January the information and operator dialing codes will be changed.

From Manual to an Instrument of the Same Type—The number will be called as at present except that each number will be built up to six digits so that MA in 0021 must be called as Main 0-0-2-1.

It will not be necessary in calling any number to ask for an interchange operator as all calls will be made direct over the same board.

## NEW "SIX DIGIT" TELEPHONE




**Left to right—Dial of new style of instrument which the Pacific Telephone and Telegraph Co. will have installed inside the next few months; instrument showing relative position of dial to transmitter.**

## Wife's Divorce Suit Followed by Suicide

Marshfield, Nov. 19.—As a result of shooting himself through the head on the street here Friday, J. R. Johnston, Allegany farmer, died Friday night. His wife recently started a suit for divorce and Johnston had been through financial troubles. Evidently contemplating suicide two days ago, Johnston made a will, leaving all his property to two small sons, in the custody of the wife.

**CALDWELL FOR POINDEXTER**

Spokane, Wash., Nov. 19. — Mayor Hugh M. Caldwell of Seattle, frequently mentioned as a likely opponent to Senator Miles Poindexter in the Republican primary, declared in Spokane Friday that he will not be a senatorial candidate, but will support the candidacy of Poindexter.

**CITIZENS' TICKET NAMED**

Goldendale, Wash., Nov. 19.—Nominations for the annual municipal election, December 6, were: R. D. Sunderland, grain buyer; F. L. Branton, automobile salesman, and Edward Pike, farmer, for councilmen; T. Bert Wilson, city treasurer. The ticket will be designated the "citizens' ticket."

# BLIND STUDENT FORGING AHEAD

### Aberdeen Youth Taking Course in High School; His Ambition Is to Be Journalist.

Aberdeen, Wash., Nov. 19. — Though seriously handicapped by total blindness, which affliction has continued since early childhood, Claude Judge, 20-year-old son of Mr. and Mrs. C. E. Judge of this city, is making good as a junior in the Aberdeen high school. Young Judge was born in Missouri, and because of that fact has inherited the natural tendency of people from that state demands to be shown before he accepts off-hand statements. Judge was a student at the state school for blind at Vancouver for ten years but prefers the school here and is very popular with the students.

He is taking English, physics, history and Spanish and is receiving good credits. He is the first student with his disability to attend the Aberdeen schools. He is an enthusiastic supporter of athletics and is depended on to do the biggest rooting for the home team. He keeps in touch with the plays by having a student with him who gives him the cues.

He is also a musician of considerable natural talent and plays the piano and the banjo so well that he has been accepted as a member of a local orchestra. He is also a member of the American Federation of Musicians. He expects to make journalism his profession although for a time desired to study wireless telegraphy. That he now regards as too slow.

In journalism he wants to be a specialist like Abe Martin, Walt Mason, or some other of their peculiar style. He has written a number of poetical parodies for outside magazines and furnishes the school papers with screeds of various kinds, all regarded as indicating talent for this kind of journalistic activity. In literature he likes Shapeskeare and Scott, dislikes Milton, prefers jazz music to classical and despite his handicap says he enjoys life all of the time.

## Coyote With Rabies Bites Star Resident

Boise, Idaho, Nov. 19.—A mad coyote was killed on the streets of Star, Friday. One person was bitten and several dogs, before the animal was killed. The body was examined in the state bacteriological laboratory and the examination showed that the animal had rabies.

*Do Your Christmas Shopping NOW —in a Ben Selling Overcoat!*

Garments like these keep you warm and comfortable and, therefore, in a happy state of mind which means goodwill to all!

And it's truly a pleasure to pick and choose from such a magnificent showing of Overcoats as this I have here. If you need a new Overcoat, come in and slip into a number of these fine garments; you'll soon find the one you want!

Price? Moderate, of course! As a matter of fact, prices at my store this season bespeak a most liberal attitude toward my customers. And what I lose in profits may be credited to goodwill!

*Overcoats for Men and Young Men*
*Twenty-five Dollars to Sixty*

**BEN SELLING**
Leading Clothier—Morrison at Fourth



**Victor Records**
*Operatic Selections*

64822—Carmen (Prelude to Act I) ..... Philadelphia Orch—$1.25
88127—Aida (Heavenly Aida) ..... Enrico Caruso— 1.75
74499—Rigoletto (Dearest Name) ..... Amelita Galli-Curci— 1.75
64933—Mefistofele (From the Green Fields) ..... Beniamino Gigli— 1.25
74509—Lucia (Mad Scene) ..... Amelita Galli-Curci— 1.75
89018—Trovatore (Home to Our Mountains) ..... Homer-Caruso— 2.00
89061—Pagliacci (On With the Play) ..... Enrico Caruso— 1.75
87569—Gioconda (Thy Little Hand, Love) ..... Garrison-Werrenrath— 1.50
55066—Lucia Sextette ..... Victor Opera Sextette
Rigoletto Quartet ..... Victor Opera Quartet — 1.50
45181—Tales of Hoffman (Barcarole) ..... Marsh-Dunlap
Italian Street Song ..... Lucy Marsh and Chorus — 1.00
88154—Tannhauser (Evening Star Song) ..... Emilio de Gogorza—$1.75
88301—Barbiere (A Little Voice I Hear) ..... Luisa Tetrazzini— 1.75
74622—Rigoletto (We Are Equal) ..... Renato Zanelli— 1.75
89030—Trovatore (Miserere) ..... Aida Caruso— 2.00
88113—Madama Butterfly (Some Day He'll Come) ..... Geraldine Farrar— 1.75
74626—Boheme (Rudolph Narrative) ..... Orville Harrold—$1.75
74573—Faust (All Hail, Thou Dwelling Lowly) ..... Giovanni Martinelli— 1.75

**Hovenden Piano Co.**
*146 Park St.*
BET ALDER AND MORRISON
VICTROLAS AND VICTOR RECORDS



**Shanahan**
THIRD & WASHINGTON STS.
HENRY J. DITTER, Mgr.

# Buy Your Yard Goods at Shanahan's

**For the thrifty woman who wishes to purchase materials for her winter sewing there is no place where the dollar will purchase as much as at this store where all unnecessary expenses are eliminated and the saving goes to the customer. You can't afford to shop elsewhere.**

## Dress Goods

**36 Inch Costume Velvet**
**$2.95 a Yard**
We are offering in our dress goods department an exceptionally fine quality costume velvet, chiffon finished, fast color and fast pile in navy chiffon finished, fast color and fast pile in navy, black, brown and wine.

**Silk Velvet**
**$1.95 a Yard**
18-inch Silk Velvet in black, brown, blue and gray—a wonderful cloth for trimming.

**27 Inch Costume Velvet**
**$1.95 a Yard**
An exceptional quality at this price is this wonderful 27-inch costume velvet chiffon finish, fast pile and color.

**40 Inch Chiffon Velvet**
**$5.75 a Yard**
Irresistible is this wonderful new chiffon velvet in black and navy only.

**50 Inch Plush**
**$3.89 a Yard**
We are offering an exceptional value in this wonderful 50-inch plush, which comes in brown, white and gray.

**36 Inch Serge**
**95c a Yard**
36-inch Serge pebble cloth with hairline, also a line of granite cloth at this price.

**50 Inch Broadcloth**
**Extra Special $2.25 a Yard**
We recommend this 50-inch All-Wool Broadcloth in black and brown at this exceptionally low price.

## DOMESTICS

| | |
|---|---|
| 72x90 Belfast Sheets, each | $1.39 |
| 81x99 Belfast Sheets, each | $1.50 |
| 72x99 Moclips Sheets, each | $1.65 |
| 72x90 Pequot Sheets, each | $1.75 |
| 81x90 Pequot Sheets, each | $1.89 |
| 45-inch Pequot Tubing, a yard | 50c |
| 45-inch Indian Head Tubing, a yard | 45c |
| 42-inch Linen Finish Tubing, a yard | 39c |
| 36-inch White and Fancy Outing, a yard | 18c |
| 40-inch Unbleached Muslin, a yard | 12½c |
| Full 26-inch White Outing Flannel, a yard | 12½c |
| 54-inch All Pure Linen, suitable for lunch cloths and napkins, yard | $1.50 |
| 36-inch Handkerchief Linen for | $1.49 |
| 72x90 Stitched Batts for | $1.00 |

**40 Inch French Serge**
**$1.89 a Yard**
Wonderful is this line of extra quality French serge all-wool in navy, brown, black and plum colors.

## Wash Goods

**Comforter Sateen**
**39c a Yard**
36-inch Comforter Sateen in light blue and light pink, small rosebud designs. Also, light pink with bluebird pattern. This may be used for linings.

**32 Inch Amoskeag Gingham**
**25c a Yard**
We have just received a splendid assortment of this 32-inch Amoskeag gingham in fancy and plain colors.

**10 Yards Longcloth**
**$1.89**
We were very fortunate in being able to secure 100 bolts of 36-inch chamois-finished longcloth at this special price.

**36 Inch Nainsook**
**25c Yard**
We have a splendid 36-inch Cambric finished Nainsook special for this week.

**27 Inch Velour**
**29c a Yard**
This 27-inch velour is excellent for kimonos, sacques and house dresses. Comes in a splendid assortment of light and dark floral patterns.

**36 Inch Swiss**
**25c a Yard**
36-inch novelty swiss for kitchen and bathroom windows.

**36 Inch Scrims**
**12½c a Yard**
These scrims are very desirable for hotels and rooming houses, as well as for homes. They come in white, cream and ecru.

**New Cretonne**
**35c a Yard**
We have just received a wonderful new line of 36-inch cretonne in distinctly new patterns, for overdrapes, comforters and aprons.

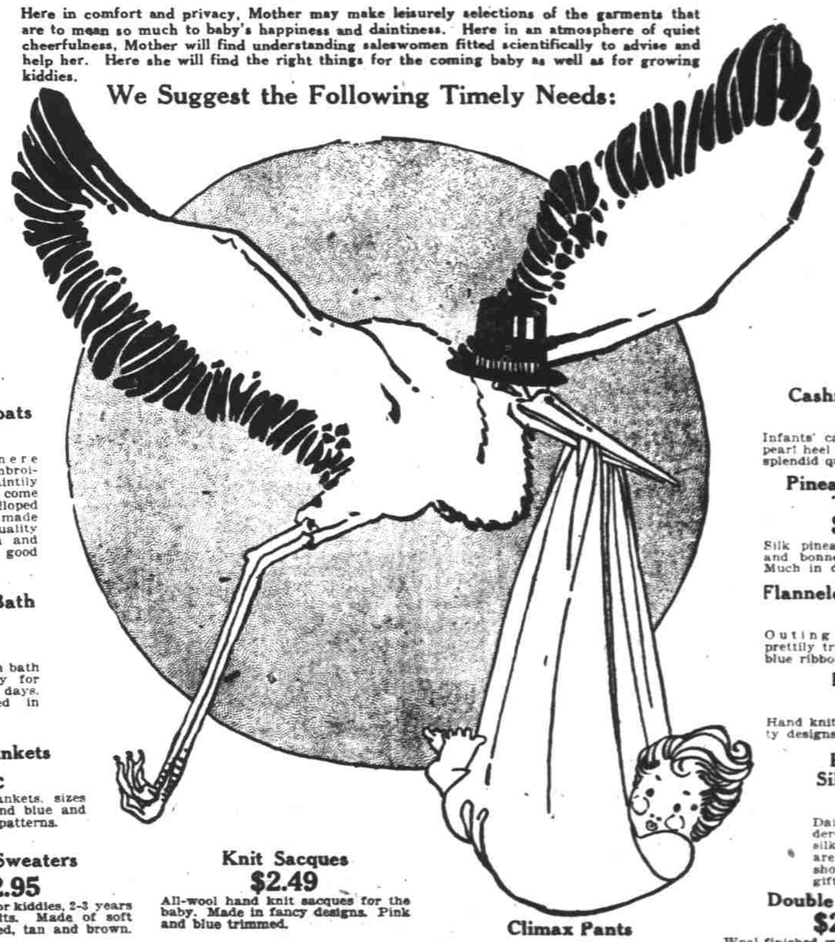
**36 In. Marquisette**
**25c a Yard**
We have an excellent quality plain tape edge in this 36-inch marquisette, which comes in white, cream and ecru.

**36 Inch Percale**
**19c a Yard**
We have an excellent assortment of standard percales in light and dark patterns and also checks in this lot.

## Shanahan's BABY SHOP ATTRACTIONS

**Here in comfort and privacy, Mother may make leisurely selections of the garments that are to mean so much to baby's happiness and daintiness. Here in an atmosphere of quiet cheerfulness, Mother will find understanding saleswomen fitted scientifically to advise and help her. Here she will find the right things for the coming baby as well as for growing kiddies.**

**We Suggest the Following Timely Needs:**



**Nainsook Dresses**
**$1.25**
Baby nainsook dresses, 22 inches in length. Prettily embroidered and trimmed with dainty lace and insertion.

**Teddy Suits**
**$4.95**
Just the thing for growing kiddies, these teddy suits of knit wool yarn. They come in brown and blue. Sizes 6 months to 3 years.

**Cashmere Coats**
**$4.95**
Infants' cashmere coats, hand embroidered and daintily trimmed. These come in plain and scalloped collars. They are made of an excellent quality cashmere cloth and are lined with a good quality sateen.

**Eiderdown Bath Robes**
**$1.98**
Babies' eiderdown bath robes; so comfy for these chilly days. Daintily trimmed in pink and blue.

**Crib Blankets**
**85c**
Infants' crib blankets, sizes 30x36, in pink and blue and fancy Jacquard patterns.

**Wool Sweaters**
**$2.95**
Wool sweaters for kiddies, 2-3 years of age, with belts. Made of soft fleece yarn in red, tan and brown.

**Crepella Sacques**
**$2.95**
Pretty crepella sacques, daintily hand embroidered with smocking and stitched in pink and blue.

**Knit Sacques**
**$2.49**
All-wool hand knit sacques for the baby. Made in fancy designs. Pink and blue trimmed.

**Flannelette Diapers**
**$1.95 Dozen**
Infants' diapers made of good quality flannel, well made. Regular $2.50 value.

**Climax Pants**
**59c**
We are exclusive representatives in Portland for this wonderful rubber pant. Each one is guaranteed to wash, boil and iron. Medium and large sizes.

**Kozy Wraps**
**$6.95**
The popular Kozy Wrap, so convenient to tuck the baby in on these nippy winter days, is made of wool eiderdown and distinctively trimmed with pink and blue ribbon.

**Silk and Wool Shirts**
**$1.25**
We recommend the Orchid brand for quality silk and wool shirts in Vanta style. Size 2.

**Cashmere Hose**
**49c**
Infants' cashmere hose with pearl heel and toe, ribbed. A splendid quality. Sizes 4-6½.

**Pineapple Stitch Toques**
**$2.95**
Silk pineapple stitch toques and bonnets for little tots. Much in demand.

**Flannelette Wrappers**
**98c**
Outing flannel wrappers, prettily trimmed in pink and blue ribbon.

**Bootees**
**65c**
Hand knit bootees with pretty designs, in pink and blue.

**Embroidered Silk Comforters**
**$4.95**
Daintily hand-embroidered are these pretty silk comforters, which are so popular for showers and birthday gifts.

**Double Blankets**
**$2.49**
Wool-finished white blankets, 36x50 inches, with pink and blue borders.

**Baby Shoes**
**$1.25**
Hand embroidered crepe de chine baby shoes in many pretty patterns.