THE SUNDAY OREGONIAN, PORTLAND, AUGUST 17, 1902.

Grand-Avenue Presbyterian.

Church, corner Grand avenue and Wasco

ices with Hassalo and Westminster soci-

Rodney-Avenue Christian.

Subjects at the Rodney-avenue Chris-

IN THE CHURCHES

BISHOP THOBURN WILL PREACH AT TAYLOR-STREET METHODIST

Swedish Lutheran.

Norwegian Latheran.

Beren Mission.

N. E. Stmenson, D. D., from Ev anston, Ill., will preach in the Norwegian M. E. Church, Thirteenth and Davis

At the Swedish Lutheran Immanuel

38.81.

M. E.

The services in Taylor-Street Church to- | Stark, at Il A. M. and S P. M. In the day will be of more than usual interest. At 10:30 this morning Bishop J. M. Tho-C. A. Beed, followed by Mrs. Ladd Finntburn will preach. Bishop Thoburn has spent the major portion of the last 40 years in missionary work in India, where Church, 428 Burnside street, services will be held at 10:30 A. M. and 8 P. M. Sunday school meets at 12 M. Rev. John W. Skans he has seen the work grow from a few members to 140,000 adherents, divided into five annual conferences. He has twice is pastor. visited the Philippines, and is familiar with the conditions which obtain in those islands, and was recently called to the White House to consult with President

22

Roosevelt as to the possibilities of developing the Filipinos, of which he is very honeful. He expects soon to return to India.

Dr. L. E. Rockwell, presiding elder of the Portland district, will preach at 7:45 in the evening, this being the occasion of the fourth quarterly meeting of the year. The class meeting is held at 9:30; the Sunday school meets at 12:15, and the Epworth League at 6:30, led by Miss D. H. Thomas. . . .

A meeting of especial interest will be held at the Young Men's Christian Assoclation this afternoon at 4 o'clock. The secretaries of the associations in all the principal cities of the Northwest, who are present in Portland at a conference, will have charge of the service. Mr. A. S. Allen, the Senttle general secretary, will give an address to young men. The special music will be in charge of Mr. Robert Carey, of Everett. All men are invited to the meeting, which will be held in the Association building, corner Fourth and Yamhili streets.

Grace Methodist.

Bishop Earl Cranston, D. D., resident bishop for the Northwest at Portland, will preach at Grace M. E. Church, Twelfth and Taylor streets, this morning at 19:45 o'clock. Bishop J. M. Thoburn, D. D., missionary hishop of India, will preach at 7:45 P. M. Class meeting is held at 0:30 A. M.; Sunday school, 12:15 P/ M., J. K. Gill superintendent; Epworth League at 6:45 P. M.; prayer meeting Thursday evening. The pastor, Rev. J. R. T. Lath-rop, D. D., will return from his vacation in a few days, and will be in his pulpit as usual August 24, and from that time on.

First Congregational.

At the First Congregational Church, cor-per Park and Madison streets, Rev. S. M. Freeland, acting pastor, will conduct the following services: 10:30 morning service, Tonowing services: 10.35 monthing services preaching on the topic, "Civil War in the City of Mansoul"; 12:15, Sunday school, S. G. Smith, superintendent; 6:30 P. M., Y. M. S. C. E. meeting. On Thursday evening the midweek meeting will be held; topic, "Grapes of Eshcol; Their Costliness."

Trinity Episcopal.

Trinity Chapel, Nincteenth street, near Washington. Rev. Dr. A. A. Morrison, rector, will conduct services as follows: Litany, sermon and holy communion, A. M.; evening prayer, 8 o'clock; Sunday school 9:30 A. M.

First Baptist.

At the First Baptist Church, corner Twelfth and Taylor streets, the services will be as follows: 8 A. M., Savier-street Mission, C. A. Lewie, superintendent; 10:15 morning prayer; 10:30, sermon by Rev. W. B. Riley, D. D., of Minneapolis, sub-ject, "A Sample Church"; 12 M., Sunday school, J. G. Malone, superintendent; 7:45 P. M., Dr. Rilev's subject, "Mutual Confessions." Baptism at opening.

Professor E. E. Tafi will play the organ. Chorus choir, C. J. Millis, director. Miss Klippel will sing solos. Morning, "An-gels Ever Bright and Fair" (Handel); evening, "One Sweetly Solemn Thought" (Ambrose). The sermons by Dr. Riley have been greatly enjoyed. He will remain as supply only one more Sunday, and those who fall to hear him will miss a rare opportunity to listen to one of the

church today will be as follows: At 19 o'clock the Sunday school convenes for strong preachers of the land. Baptist outdoor preaching, corner Second the study of the lesson.

David's Episcopal church, elfth and Morrison streets, Rev. orge B, Van Waters, rector, will have orgices as usual. Holy St. Twelfth George B. charge of the services as usual. Communion will be administered at 8 o'clock, Sunday school at 9:5 and the morning prayer and sermon at 11 o'clock. The usual evening service will be con ducted at 8 o'clock.

The services at St. Paul's church, Wood-mere, will be held at 2 P. M. First United Evangelical.

This evening at the First United Evan-gelical Church, East Tenth and Sherman streets, the pulpit will be occupied by Mrs. C. A. Davis of the Des Moines Con-ference. The services will begin at 8 o'clock. The pastor, Rev. C. C. Poling, will preach as usual in the morning. First Universalist.

Regular preaching services will be re-sumed this morning at the First Univers-alist Church, corner East, Eighth and M. E. Church, Thirteenth and Davis streets, Thursday evening, August 17, at 8 o'clock. All Scandinavians are invited. East Couch streets. Preaching services will be held at 11 o'clock. Rev. W. C. Small will begin his services at this time. Sunday school meets at 12 o'clock.

tian Church will be as follows: Morning, "Heaven"; evening, "Forces at the Com-mand of the Church." At the Berea Mission, corner of Second Baptist. and Jefferson stroets, services will be held today at 10:30 A. M. and 7:30 P. M. by the pastor, Rev. J. H. Allen. The morning text will be, "And none of the disciples" The usual services will be held today at morning the pastor, Rev. William E. "Heaven"; evening. "Forces at the Com-mand of the Church." Evangelical Mission. At the Memorial Mission of the Evan-gelical Association, corner of East Eight-

by Mrs. J. H. Gibs

THIRD PRESBYTERIAN CHURCH

WHICH WILL BE DEDICATED THIS AFTERNOON.

durst ask him. Who art thou? knowing Randall, will deliver a sermon on "Rest of preaching today at 11 A M and S P M apel, Nincteenth street, near Rev. Dr. A. A. Morrison, conduct services as follows: EAST SIDE CHURCHES.

is extended to members of labor organ-izations and their friends. The quartet choir will contribute to the pleasure of Third Presbyterian Church Will Be Dedicated This Afternoon at 2:30. The Third Presbyterian church, East the services of the day,

Thirteenth and East Pine streets, will be Calvary Baptist. At the Calvary Baptist Church there will be preaching morning and evening by the pastor, M. M. Bledsoe. Morning expected to be present. Rev. Robert Mc-Lean, retiring pastor, will deliver the ded-Lean, restring pastor, will deliver the ded-icatory sermon. The entire day's services will be appro-priate to the dedication. In the morning there will be a payro-priate to the dedication. In the morning the morning the day is a service of God." Sunday school meets at 10 A. M.; B. Y. P. U. at 7 P. M.

University Park Methodist, The pastor, Rev. Charles T. McPherson will preach at the University Park M. E. Church today at H A. M. and 7:45 P. M. The morning subject is: "The Stone

Must Be Taken Away": evening subject: "Sowing and Reaping." Sunday school meets at 5:45 A. M.; Union League 2:30 P. M.; Senior League 6:45 P. M. United Brethren.

Centenary Methodist.

evening topic is "Would Christ Belong to the Labor Union?" A special invitation The evening subject is "The Economi Value of the Christian Religion." East Side Spiritualists.

The Truth-Seekers' Society will hold services in Logus Hall on East Wash-Ington and Grand avenue at 11 Å. M. and 7:45 P. M. Service conducted by Rev. G. C. Love. Music by Mrs. G. C. Love. Christian Catholic.

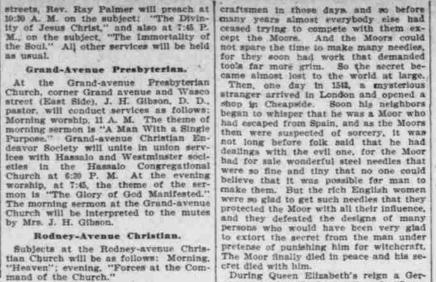
At the Christian Catholic Church in Zion, services will be held in Portland at Grand and Hawthorne avenues, East Side, as follows; Junior Bible lesson at 2 P. M. gathering at 3 P. M. The triune gospe of salvation, healing and holinese for man's spirit, soul and body is taught.

Swedish Lutheran. At the Swedish Lutheran Church, corner Rodney avenue and Stanton street services will be held at 3 o'clock P. M.

Danish Lutheran.

fish bones.

Services at the Danish Lutheran Church, Third and Gilsan, will be held today at 11 A. M. and 7:45 P. M. Sunday school spects at 10 A. M.



man arrived in England and made "Span-ish" needles. Before long an Englishman Imported 22 German workingmen. That practically founded the great needle-mak-ing industry of England,

It is a far cry from the poor fugitive Moor in ancient London, sitting in his Moor little shop and turning out a few dozens of needles a day, to the roaring machine shops of Connecticut. It is just as if Uncle Sam's tax census gatherers had spread a magic carpet for you to slt on, which whisked you at once from today into yesterday and far beyond. Do you not think that it was a magic carpet worth riding on indeed that has been woven out of the dry figures and statistics that he has gathered about pins? From your conv houses with electric lights and glass windows and telephones, and trolley cars speeding not far distant, you have been away to the dim times when man walked abroad garbed in hides and armed with cluba.

You have sped through Europe's dark ages, through the romance of the chivalric Moors, through Queen Elizabeth's Lon-don, through our own Revolutionary War, and finally into bustling, smoking Connec ticut-actually like the East Indian fakir of the old legend, who traveled around the world on the point of a pln! J. W. M.

When Lord Kelvin Got Angry.

Lord Kelvin, during his long occupancy of the chair of natural philosophy in the University of Glasgow, made use of many simple and familiar objects to illustrate his lectures. Eggs, jellies, shoemaker's wax, tops, globes and bottles were among the most common.

A significant and exceedingly popular experiment was spinning an egg which was suspended in the air. If this was hard boiled it would whiri a long time. If not, it would soon cease, owing to the friction between the contents and the

His inference was that the interior of the earth cannot be fluid, or the globe's rate of rotation would have been checked ong ago. It is related that the students once conspired to change the eggs which had been supplied for this illustration. Not one would spin properly, and the lecturer easily guessed the reason.

ndulged in mischlevous pranks. It is re lated, though, that on one occasion, while his back was turned, he was struck on the head by a big paper wad. On this occasion he betrayed heat that was highly exceptional with him. Facing about, with eyes aflame, he shouted:

Marvelous Elixir of Life Discovered by

Famous Dector-Scientist That Cures

Every Known Ailmant.

Like Miracles Performed --- The

Secret of Long Life of Old-

The Remedy Is Free to All Who

Send Name and Address.

en Times Revived.

In the A. O. U. W. Hall, on Second stree between Taylor and Salmon streets. Yo between Taylor and Salmon streets. You will receive messages from your departed spirit friends. Free to all! Free to all Sunday eve, August II. Doors open at home. No collections will be taken up whatever. Don't forget the date is Sun-day eve, August II. Everybody is invited to come, and you will receive free tests. TRAVELERS' GUIDE. WHITE COLLAR LINE STR. BAILEY GATZERT. PORTLAND-ASTORIA ROUTE. Round trip daily except Sunday. TIME CARD. SICK MADE WELL WEAK MADE STRONG Leave Portland



TRAVELERS' GUIDE.

OREGON

SHORT LINE

5:00 P. M.

5.00 P. M.

STEAMER T. J. POTTER, For Astoria and Hwaco, daily except Sunday and Monday. Leaves Asi-Sireet Fuck this week: Tuesday 7:45 A. M.: Wednesday, 8:20 A. M.: Thursday, 9 A. M.: Friday, 8 A. M.; Saturday, 10:30 A. M.:

TICKET OFFICE. Third and Washington. Telephone Main 712.

PORTLAND & ASIATIC STEAMSHIP CO.

ERN A

OINTMENT, purest of emollient skin cures. This treatment at once stops falling hair, removes crusts, scales, and dandruff, soothes irritated, itching surfaces, stimulates the hair follicles, supplies the roots with energy and nourishment, and makes the hair grow upon a sweet, wholesome, healthy scalp, when all else fails.

Complete Treatment For Every Humour, \$1, consisting of Cur-touts soar (Sc.), to cleanse the skin of crusts and scales, and wolten the thickened cuticle; Curtcura Osymmetry (Sc.), to instantly alloy thehing, inflammation and irritution, and wolto and heal; and Curicit as Resouvery Pittas (Sc.), to cool and cleanse the blood. Curtoura Resouvery Pittas (Chocolate For Tokohama and Hong Kong, calling at Kobe, Nagasaki and Snanghal, taking freight via connecting steamers for Manila, Port Ar-thur and Viadivestack. INDRAVELLI SAILS ABOUT AUGUST 23. For rates and full information call on or ad-dress officials or agents of O. R. & N. Co. CUTIOURA RESOLVENT PILLS (Chocolate

Coated) are a new, tasteless, odoriess, eco-nomical substitute for the celebrated liquid COTICURA RESOLVENT, as well as for all other blood purifiers and humour cures. In screwcap vials, containing 60 doses, price 25c

Sold Chronghant the world. Bridah Depot. 5-38. Charterheuse Bo. Landas. Prench Depot. 5 Rus de la Paiz, Parts. Portas Davo and Chan. Conr. Props.





shell.

"None of them bolled! omment of the lecturer. them bolled " was the only

So profound was the admiration of the students for his learning, originality, enthusiasm and amiability, that they rarely

"If I knew who dared throw that pellet, by Jupiter, I'd hammer him!"

and Burnside streets, at 5 P. M. Rev. M. oe will have charge. Address by Riley, of Minneapolis. He is well Dr. Riley, of Minneapolis, worth hearing. Hymns distributed and good ringing.

First Christian.

Today at the First Christian Church. corner Park and Columbia streets, Rev. J. F. Ghormley will take for his morning theme, "Journeying Toward Canaan," and bis evening theme, "The Life of Faith."

Immanuel Baptist.

At the Immanuel Baptist Church, Sec and and Meade streets, the sermon will, be preached by Rev. W. B. Turner, former pastor, at 10:45. Bible school meets at 12. The evening service, including Young Peo-ple's meeting, will be suspended, and the congregation will worship with the First Church, at Twelfth and Taylor streets. The People's Christian Union.

The regular services of the People's Christian Union will be held in the first hall, No. 20, Allsky building, corner of Whird and Morrison streets, today, A de votional service is held at 11 A. M. The minister, Rev. F. E. Coulter, will preach on the subject, "Burdens and Rest." 12 M, the Bible study and school of At of refigion will be held; leader of adult class, A. T. McCoy. At 8 P. M. the practical in-dustrial service will be held, taking the form of an informal discussion. Theme is "What Is an Educted Man?" led by the minister, followed by a number of the members of the union and others, The floor will be open to any one who desires to take part. On Tuesday at 2:30 P. M. the regular bimonthly session of the la-dies reading circle will be held at the residence of Mrs. E. H. Wharton, 687 (Clinton street.

Bethel African Methodist.

At the Bethel African Methodist Epis-copal Church, 63 North Tenth, there will be preaching at 11 A. M. on the subject, "Why Sit We Here Until We Die?" General class is held at 12 M.; Sunday school at 1 P. M. At 8:30 P. M. the pastor will fellver his concluding ser-mon for the conference year, followed with a song by the senior quartet. Miss Mary Moore will have charge of the junior and senior choirs,

First A. M. E. Zion.

At the First A. M. E. Zion Church, corrteenth and Main streets, Rev. J. W. Wright, pastor, will preach at 11 A. M, on the theme, "Holiness, Union and M on the Work." At \$:30 P. M. the theme is "Good Things." Class meeting is held at noon; Sunday school I P. M., J. N. Fullilove, superintendent; Christian Endeavor 7:30 P. M., J. M. Mitchell, president.

Mormon.

The Church of Jesus Christ of Latter-Day Sainta holds services every Sunday afternoon and evening at 2 and 7:50 Alisky building, hall 400.

Norwegian Lutheran.

Services will be held at the Norwegian Lutheran Church, 45 North Fourteenth street, today at 11 A. M. and S P. M.' Sun ol meets at 10 A. M. Rev. J. M. Nervig is pastor.

Christian Science,

At the First Church of Christ, Scientist, on Twenty-third street, near Irving, sery-ices will be held at 11'A. M. The subject of the sermon is "Mind." Children's Sunday school meets at 12:10. Wednesday evening meeting is held at 8 o'clock. The free reading-room is open daily from 10 to 5 at rooms 2. 3 and 4. Hamilton build-ing, 131 Third street.

Spiritualists.

In the absence of the pastor, who is away on his vacation, Rev. F. L. Young, of the Clarke Methodist Church, will preach in the morning at 10 °clock. There will be no devotional meeting of the Epworth League at 7 P. M. At 8 o'clock, under the management of the president, J. P. Newell, the league will conduct the services. The subject for the evening will be, "Why I am a Christian." A Soci number will give brief addresses and ing

special music has been prepared.

prints to the dedication. In the morning there will be a young people's meeting. In the evening Mr. McLean will speak his last words to the G. A. H. posts and Women's Relief Corps, who have accepted invitations to be present. The day is significant besides the dedication, for the

eason that it will mark the close of Mr.

The services of the Sunnyside Methodist

Sunnyside Methodist.

McLean's pastorate.

U

St. David's Episcopal. Regular services will be held today at Church, corner East Pine and Ninth

turned from China will relate what they. have seen and done in the great Canton district. Many interesting relics will be displayed. The male choir will furnish special music. The Christian Endeavor Society meets at 7 P. M. Prayer meet-Wednesday evening.

At the United Brethren in Christ Church, Filteenth and East Morrison streets, Rev. E. B. Ward and wife will Scandinavian Lutheran.

At the Scandinavian Evangelical Lu-theran Church, East Grant and East Tenth, there will be no services today, on account of ordination at Silverton.

Millennial Dawn. Regular Millennial Dawn services will e held at II A. M. at 414 East Ninth street, corner Grant.

University Park Baptist. In the University Park Methodist Bap-ist Church Sunday school meets at 19 A. tist Church Sunday school meets at M. W. O. Haines is superintendent.

After years of patient study, and dely ing into the dusty record of the past, as nobly pinned together with slender, white

Wayne, Indiana, makes the startling

Fish bones served richly until man be-gan to long for beauty, probably without knowing it. Being simple and direct, he soon gratified his desire by personal adorn-ment So the sum functions So the cave dwellers began to rub the smaller animal bones on flint till ground them into fairly good pins From that it was only a step to the

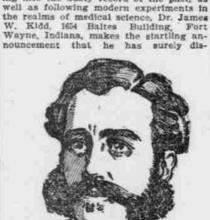
ornamented pins that have been found in the ancient lake dwellings of Central Europe. Some of these had double shanks, like our modern hairpins. Others

poses, and the ancient man soon had to devise something that was like a pin and yet would draw a sinew or other bind-ing material through his skin garment so that two pieces of it could be fastened together. Again, the fishbone had to serve, and when a cavedweller discovered that by tying a piece of deer sinew to it he could stitch his clothes together, the first sewing society of the world was started. It probably held its open-ing session in some cave in Southern France.

From fish bones and animal bones to Dr. JAMES WILLIAM KIDD. netal was the next great advance made covered the elixir of life. That he is able with the aid of a mysterious comby the world. Man was still very primiuncouth when he found that pound, known only to himself, produced tive and he could do things with the ores of the earth. Perhaps he got his first idea of it as a result of the years he has spent in searching for this precious life-giving from seeing volcanic fire fuse the great boon, to cure any and every disease that is known to the human body. There is no doubt of the doctor's carnestness in rocks. At any rate, he began to make his pins and needles out of bronze before making his claim, and the remarkable cures that he is daily effecting seems to bear him out very strongly. His theory which he advances is one of reason and

The first needles were merely straight, inted pieces of metal. The sinew or fiber that served as thread was fied to one An inventive genius improved on end. practice of many years. It costs nothing to try his remarkable "Elixir of Life." as he calls it, for he sends it free to anyone this one day by making a little hook in the end to prevent the fiber from slip-ping off, as it often did. The next man improved that by cutting a notch instead of making the clumsy hook. Then for many ages the world did not of making the clumsy hook. Then for many ages the world did not make any notable improvement in nee-dles. Folk used clumsy metal contriv-ances and did not dream that they were of making the clumsy metal contriv-ances and did not dream that they were the cures cited arc very remarkable, and but for reliable witnesses would hardly be credited. The iame have thrown away crutches and walked about after two or not good enough, until the Moors entered Spain at the time of the great invasion of Europe by the grim and terrible Sara-stored to their families and friends in per-Spain at the time of the great invasion of Europe by the grim and terrible Sara-cans. The Moors brought with them, befect health. Rheumatism, sides much other culture, the art of mak-ing dainty needles of steel. Gradually the knowledge spread through Europe, and 120 years before Columbus discovered America the men of Nuremburg began to make them. That was a queer industry then; for the needle-makers were the armorers, too; and the same man bent out a tiny needle to be used by the delicate fingers of a woman in embroidly and permanently removed. It purifies the entire system, blood and tissues, reery and hemming might be busy in anoth-er hour forging a tremendous double-handed sword of the kind that the old stores normal nerve power, circulation and a state of perfect health is produced fighters loved to wield.

fighters loved to wield. And, by the way, isn't it queer to think that many of your pretty and innocent toys are made how by the descendants of those same old Nuremburg craftsmen who sent out the weapons that made poor Europe bloody for so many generations? Nobody could beat the Nuremburg



based on sound experience in a medical

pear as by magic. Headaches, backaches

vital organs are easily overcome in a

space of time that is simply marvelous. Partial paralysis, locomotor ataxia, dropsy, gout, scrofula and piles are quick-

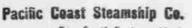
Wonderful Cures Are Effected That Seem

THE DALLES-PORTLAND ROUTE.

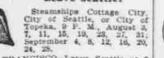
STRS. TAHOMA AND METLAKO.

Every Sunday for Cascade Locks; inuve 9 A. M., arrive back at Portland 7 P. M. STR. METLAKO EXCURSION Locks and return, connecting Cascade Locks and return, connecting with Bailey Gatzert, making through connections between Portland and The Dailes both ways

between Founday. Sunday exautions Portland to Vancouver and return. See local "ads." Landing foot of Alder street, Portland, Or. Both phones, Main 151. E. W. CRICHTON, Agent, Portland, Or.



For South-Eastern Alaska. Leave Seattle:



24, 25. FOR SAN FRANCISCO-Leave Seattle at 0 A. M. every fifth day. Steamers connect at San Francisco with company's steamers for ports in Southeon Cai-thornia, Mexico and Humboldt Bay. For fur-ther information obtain folder. Right is reserved to change steamers or sall-ing dates.

ing dates. AGENTE-N. POSTON, 24d Washington st., Portland, F. W. CARLETON, N. P. dock, Ta-coma; Ticket Office, 113 James st., Scattle; M. TALEOT, Commercial Agent, Scattle; GOODALL, PERKINS & CO., General Agents; C. D. DUNANN, General Passenger Agent, San Francisco.

Take Puget Sound Limited or North Coast amited for Gray's Harbor points. Take Puget Sound Limited for Olympia direct. Take Puget Sound Limited or Kansas City-8t. Louis Special for points on South Bend Astoria & Columbia branch. Double daily train service on Gray's Har-bor branch. River Railroad Co. Four trains daily between Portland and Ta-roma and Seattle. LEAVES | Depot Fifth and | ARRIVES

For Maygers, Rainier, Clatskanle, Westport, Clifton, Astoria, War-renton, Finvel, Ham-mond, Fort Stevens, I1:10 A. M. Gearbart Pk., Seaside,

9:40 P. M.

Astoria and Seashura. Express Dally, Astoria Express, Dally except Saturday, Portland-Seaside Ex-press, Saturday only.

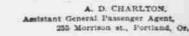
Ticket office, 255 Morrison st. and Union Depot. J. C. MAYO, Gen. Pass. Agt., Astoria, Or.

Willamette River Route

8:00 A. M.

T:00 P. M.

2:30 P. M.



Leaves. Arrives. Puget Sound Limited., 7:25 A. M. 6:65 P. M.

North Const Limited... 3.39 P. M. 7:00 A. M.

TIME CARD

OF TRAINS

PORTLAND

ORTHED

Kansas City-St. Louis

Tacoma, Seattle Night



Salem and way landings-Stra Altona and Pomona, 0:45 A. M., daily, ex. Sunday. Dayton and McMinnville-Monday, Wednes-day and Priday 7 A. M. Oregon City (daily)-8:30, 11:30 A. M.; 3 and 6:15 P. M. Leave Oregon City-7, 10 A. M.; 1:20, 4:30 P. M. Round trip, 25c. OREGON CITY TRANSPORTATION CO., Dock fust of Taylor st. **JAPAN - AMERICAN LINE** SHINANO MARU

For Japan, China and all Asiatic points, wip leave Scattle About August 26.





with

an old question. Away back in the Massachusetts make almost all the sewdays of the cave dwellers some house- ing-machine needles used. wife, dressed in skins, probably asked it Uncle Sam first attempted to make pin

wire, dressed in skins, probably asked it when the pretty bone pins made by her husband insisted mysteriously on disap- only trying to be. During the Revoluhusband insisted mysteriously on disap- only trying to be. During the Revolupearing just when she needed them; and dionary War not the least of the hardships almost everybody since then has wondered that the brave American women had to just the same way. suffer was the lack of pins; for the King's cruisers gobbled them up with everything else that ships tried to bring here. So a

IN THE UNITED STATES

Uncle Sam sent puzzle solvers out to study the matter. These puzzle solvers few pins were made in Connecticut and in were called census collectors. They had the Carolinas. But even the particts had to solve many other hard problems, for to admit that they were not good pins and finding out about pins was only one of many thousands of things that Uncle Sam insisted on knowing. Some of them had

to count his buffaloes, and others had to count his locomotives, and others had children, big and little. Most of them did pretty well. They not solve and the main the solve and the so and English pins began to arrive once more the domestic manufacture ceased. pretty well. They got so far as to count his chickens before they were hatched. Then no pins to speak of were made by They found out how many Indians he has Uncle Sam until 1830, when more than o in his country, and how many miles of telegraph wire, and how many cows and of his shrewd Yankee boys began to in-vent machines for their manufacture. torses and sheep and gosts, and lots of

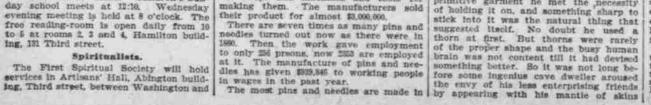
other queer things. But the men who hunted after the pin out a head. The head was formed from tiny colls of fine wire and fastened on question did not manage to find any lost pinn. All that they could discover was how many are made each year, and how the shank by pressure. The next Yankee boy invented a machine that made pins with a solid head. Before long, Uncle many everybody in the country ought to Sam's folk had machines that turned pins out at the rate of 170 a minute. Not con-tent with that, they invented a machine have if most of us did not keep losing

If everybody got his or her share of the to stick the pins into papers. When pins were made by hand each pin pins that are manufactured in the United States, each one of us ought to have 105 had to pass through the hands of 18 difnew pins each year, or a little more than one new pin every three days. There were 7,250,000,000 of pins made in

ferent persons before it was finished. Now a machine does it all. Colls of wire are placed on a reel and the machine draws the United States in the year, and the needles that were turned out amounted to more than 161,000,000. out as much wire as it needs, punches a part of it into a head and then passes on to steel pincers that selze it as Of course, Uncle Sam's puzzle solvers

hands would and pass it along in front of outiers, twirling each pin constantly so that it will be sharpened properly. Then did not count these pins and needles one by one. To do that would have required more than one man's lifetime. They found out how many factories of pins and needles there are in the country and the pins are thrown out into a bath that plates them with tin. From this bath they go into a revolving barrel of sawdust that then they asked each one for the amount brightens them. turned out by it. This process would no doubt dazzle the

The census collectors found that there simple person who made the first pin. That first pin possibly was one of the first things that man tried to make. For as soon as he began to wear even the most are 43 factories, all making them as fast as machinery can do it. Three and onequarter millions of dollars are invested in the shops and machines and tools for making them. The manufacturers sold their product for simost \$3,000,000. primitive garment he met the necessity of holding it on, and something sharp to



The first machine made the pins