TILLAMOOK HEADLIGHT DECEMBER 14, 1916

TILLAMOOKERS VISIT AUTO FACTORY IN THE EAST.

machine do the rest.

finish the aluminum parts.

other.

n nine minutes.

the crank shafts.

so much was required.

You can make this round and you

can understand this company's im-

2,500,000 pounds of tin and lead for

steel tubing and 125,000 tons of steel.

But what impressed us more than

all was the department in which ma-

know a thing is right before it goes

into a Willys-Overland car. That's

Tests in physical and chemical

laboratories are made in two ways.

steel, six inches long, cut from com-

oleted axels, are attached to both

ands, and literally pulled apart. The

registering machine shows 200,000

pounds to the square inch necessary

to accomplish this, whereas a resist-

ance up to 125,000 pounds would be

Naturally every operation in all the

plants tends finally towards the as-

sembly conveyor tracks. There are

We followed the whole operation.

frames and rear systems are put in

place. By the time the other end of

the conveyor is reached the frame has

grown into a finished car.

four of them, each 645 feet long.

position of the steel.

how they safeguard the public.

Are Surprised at its Magnitude-Have Interesting Time.

Carl Haberlach and F. W. Christension, Willys-Overland dealers in this city were two of the 5,000 dealers visiting the great Toledo plant in connection with the immense convention now in progress, recounts their experience in this interesting letter to the editor: Some action!

Nothing was ever so in pressive as

our tour of the great plant that turns out Willys-Overland cars.

Our Pullmans all parked in the company yards, There was room enough for there are seven and three quarter miles of track within the plant.

Each man got a card containing a picture of Mr. Willy and an autographed message of welcome from him: Next thing we knew we were lined up on the steps of the stunning new administration building getting protographed.

Elevators shot us to the company's own restaurant on the sixth floor. There we had a corking breakfast. At each plate was a copy of the live new Willys-Overland house organ "The Starter." It mapped our day's program.

Then started our tour of the plant. Our guides were carefully picked men. They knew the plant from end to end, and the parties were small so that each member of the party could have his questions answered.

Willys-Overland product without knowing this plant. You can't grip the immensity of the proposition till you do.

It is no piker business.

\$25,000,000 are tied up in land, buildings and machinery, not to say a word about the stock of parts and raw material. From the roof of the wonderful administration building, which stands out like a steel capital, you get a great panorama of the plant You can readily believe that it occupies 103 acres, with 4,486,680 square feet of floor space in daily use and a production capacity of 1000 cars per day.

You can appreciate the growth from 250 employes in 1908 to 17,300 in 1916

1,000 persons, more than the manufacturing force of many a company, work in the administration building alone. This structure, 375 feet long, has every facility for rapid work, including dictaphones, its own telephone and telegraph system and a mail handling department that does about everything but write the letters.

388 persons can feed in the restauproof of ample tensile strength. rant at one time. But this is nothing to what hit when you cross into the shops. It is a whirl of action, yet all is system.

Gasoline and water are then put inrough fly wheel, adjust the first set of tools, push the lever, and let the to the car. It is pushed off the track into another room, till its wheels are in contact with wheels in the floor.

The cast iron is peeled off as read-With the use of the self starter. ily as wax. Sometimes four or five operations are performed at once. they were off with a rush. There was not a hitch or delay. All the work When one set of cuttings is done, had been done right. In a few minutes the machine stops automatically, and the next set of tools comes autothe motor was working apparently almost as smoothly as if it had been matically into place. Twenty operaa year on the road. tions are performed in fourteen min-

We saw how the cars were shipped. utes. 26 pounds of metal are remov-The export department has the big ed from the wheel. One man can fcature in this line. The finished car watch three of these machines. undergoes preparation by having its . Moving up and down, the cutter at

wheels taken off and fastened on the the same time slowly revolves, the under side of the frame which forms fly wheel turning in the opposite the top covering for the car. The top direction. By the time a complete is covered with a tar paper as a prorevolution of the fly wheel has been tection against the elements, and all is accomplished, all the gears are cut. securely boxed. We all fell for the aluminum

Along comes a big crane running in foundry and for the machines that an overhead groove a quarter of a The multiple spindle drill bores 81 mile long, The operator sits in a small cab not unlike that of a railroad holes in the crank case in one operaengineer. Chains contain the box tion. This is proof of the superiority containing the car, and within fortyof machine process, for the holes five seconds have carried it outside must be in the right relation to each the building and place it on the first freight car. Another machine smooths the sur-

It is processes like these, all that I aces of the crank cases, finishing 7 have described, that explain why

every car in the Willy-Overland line Diamonds, real diamonds, are conumed with apparently reckless in- is what it is at so low a cost. Making so many is the answer, making them difference in the wet grind room. Placed in small tools they are used to go all over the world and having to true the emery wheels on which profited by the experiences of users everywhere. Quantity production, imare ground the bearing surfaces of mense and costly machines, skilled They are bought in \$15,000 lots. designing, careful inspection, accurate We looked on while the forests of tests of material, efficient factory umber were being turned into bodies methods, rapid assembly and advancin the wood work department. This ed methods of handling, all these w Nobody ought to try to sell immber comes in by carloads. As 214 saw; all these tell why the Willysfeet of wood is required on a small Overland Company lives up to its touring car, we could readily see why ideals of a car for every need or taste,

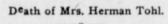
price, class and service right. We saw the line. It is quality from

the lowest price to the headliner. It mense consumption of material, 18,- will be the marvel of the automobile 000,000 pounds of solder anunally, shows. This sightseeing tour is only one angle of this convention. Tonight smoldering, 10,000,000 pounds of we will hear policy defined by the brass and copper, 12,000,000 feet of various officials.

The two day's program includes a rollicking beefstake dinner, a more formal banquet, a ministrel show, a terials are tested. They have to concert by the famous Overland band and a concert by the Glee Club.

Finally there will be a speech by the moving genius of it all Mr. Willys

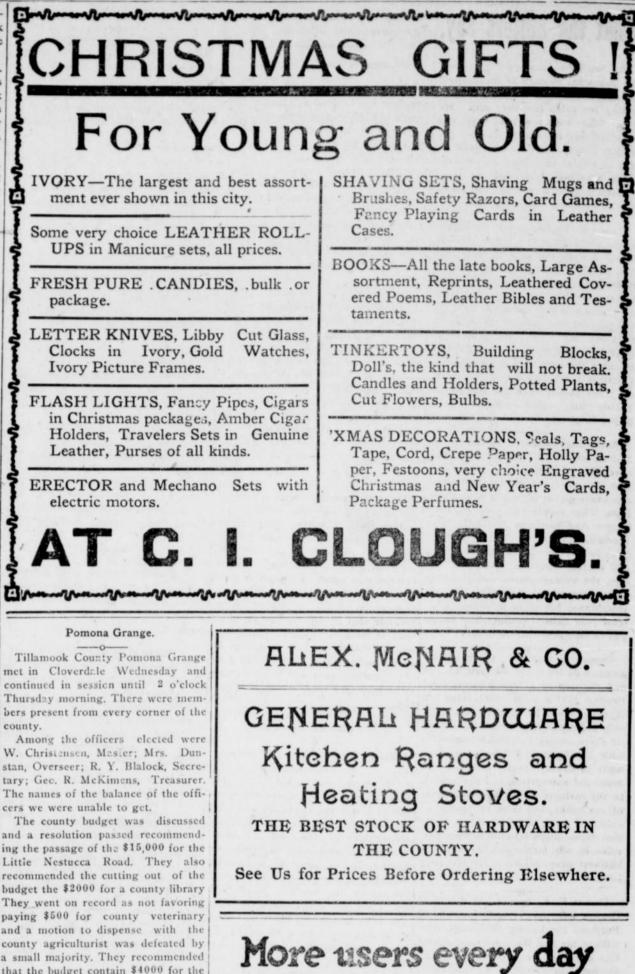
You will agree with us that this is Complete steel parts are subjected to some project to have been put over terriffic tests. Axels are twisted like all within one plant and by the people olls of taffy candy, Small bolts of of the organization.



himself.

After a two days' illness Mrs. Herman Tohl died of heart failure December 12, 1916, at her home in Nehalem.

were pleasing features of the session. Marie Kindermaun Tohl was born They adjourned to meet at Pleasant



Because it's a refined gasoline-not a mixture.

berg High School Jan. 27. Our team

Notice of Sale.

Notice is hereby given, that the un-

December.

of Necarney

Herbert V. Alley,

ceased

Cough Medicine for Children.

were living in Gurbutt, N. Y., I doc-

tored two of my children suffering

checked their coughing and , cured

their colds quicker than anything I ever used," For sale at Lamar's Drug

rom colds with Chamberlain's Cough

dersigned, executor of the estate of Mattie E. Oliver, deceased, will on

and after the 29th day of

Parts by the untold thousands are here, with a value into the millions of dollars. There are lines of motors, I never saw so many crank shafts together. Our guide said 6,000, I'd have believed 60,000.

There is stock in bins, stock in yards, stock along the walls, connecting rods, frames, fenders, mudguards, hoods, rims, springs, axels, torsion tubes, transmission gears, shafts, brake parts, steering rods, pedals, it is an unending procession.

Every thirty days sees an average of 100 tons of steel come in. It is handled by a magnetic crane that enables two men to do a work that formerly required thirty.

There are amazing machines.

The toggle press, for example, held whenever desired. us all. This monster, with its pressure Top quality of workmanship is asof 1000 tons, shapes cold steel like cardboard. A piece of metal fed into it comes out as a side frame. It can to tighten a bolt. make 2000 of these in an eight hour Lines of motors, already tested, day. wait on both sides of the conveyor.

Other mighty machines stamp out These are put into place, cantilever radiator shells, fenders, cowl dashes springs are put on, steering mechanand doors.

You take off your hat to the drop forging machines. Down comes the form.

hammer and the firey piece of iron Instead of painting the chases with is beaten into shape. The complete a brush, a sprayer is used. It does the drop forging of the front axel can be work more rapidly, more uniformly accomplished with one heat. and at a lower cost.

Every kind of part requiring The tracks of the assembly lead strength was drop forged while we directly through ovens in which the looked on, axels, crank shafts, brake paint is baked. Fenders and running assembly rods, brake and control boards come into their place.

rods, spring shackles, gear blanks | Wheels with the tires on are and brake rod sectors. brought along on a runway. First

We saw the company's accurate comes a front wheel then a rear system of dye making. It calls for a wheel. You ought to see them put on special workman on each detail. One the tires. It is lightening. By a special works on the shaper, another on the device, invented by one of the men in planer and a third on die sinking. the department, the tire can be put on trouble so bad she could eat nothing

The multiple spindle drill in one a wheel in three seconds. operation drills all the holes in the From overhead bodies are dropped thing else would sour or ferment. front axel. This is a guarantee that down on to the chases and soon made One spoonful buckthorn bark, glycereach will be in right relation to the fast. other.

It was hard to drag us away from Rapidly revolving wheels in the ka flushes the entire elementary tract the automatic turret lathe that sur- floor engage the wheels of the car, it relieves any case constipation, sour faces and finishes fly wheels. It and send them at high speed to make stomach or gas and prevents appenworks as though somewhere in its sure they are operating freely. This dicitis. It has quickest action of anymetal vitals a brain was concealed. is not a test under the power of the thing we ever sold. J. S. Lamar, drug-The workman has only to put on the car.

Springs are tried for their resistance. in Therhauser, Germany May 8, 1849 Steel articles are also put through and was 67 years, 7 months and 4 both heat and chemical tests. The days old at the time of her death. She former determines the amount of was baptized and confirmed in the carbon, an important factor; the Lutheran faith in her early youth. other determines the chemical com-

In 1873 she was married to Herman Tohl and they lived near the ia, yesterday received word that his town of Thehausen for 5 years. In brother, Dr. Henry C. Viereck, of 1879 they emigrated to America and located in Nebraska where they en- December. 2, for England where he gaged in farming for 5 years. Learn- will become an officer in the British We began at one end where the ing of the better opportunities await-

ing them in the West through Mr. Tohl's relatives, they left for their Samuel Viereck, well known residents new home in Oregon. They arrived of Tillamook where Mr. Viereck is Tillamook people will have an op-

From overhead parts are lowered and located on a homestead one-half doctor formerly lived in Tillamook action against other high schools by chains, Along the way men are mile west of the present town of Ne- and Astoria and was also a resident this season as McMinnville High attaching the parts. The frame is not halem. Here they resided until three in motion all the time, but can in- years ago when they rented their

stantly be connected with the links of farm and moved to Nehalem. Mrs. Tohl took a great interest in an endless chain and sent on its way educational affairs and she was instrusured by having each man do work house in this end of the county, which medical department of the University on which he is an expert, if it be only was located near her home.

She was a devoted wife and a loving mother and she will be missed by fraternities. a host of friends.

The funeral services were conducted in the Nehalem church Friday ism and lighting and starting systems afternoon Rev. D. M. Young officiatare adjusted. Gradually the car takes ing, internment in the Faternal Union cemetery.

Besides her husband, Herman Tohl, to Englond by Mrse Viereck. she leaves the following children: Mrs. Victor Brandt, Portland, Ore.; Mrs. Emma Sponogle, and Mrs. the Medico; Chi hospital in Philadel-Martha Howe, Point Orchard, Wash- phia where he has been practicing .-ington; Mrs. S. A. Smith, Maples, Astorian. Oregon; Mrs. A. C. Anderson, Mrs. A. D. Thompson, Mrs. Bert Gresham, Julius and Henry Tohl, Nchalem .-Nehalem Times.

Astounding Report for Tillamook.

The wife of a merchant had stomach but toast, fruit and hot water. Everyine, etc., as mixed in Adler-i-ka ben-The car is now ready for its test. efited her instantly. Because Adler-igist.

Valley the first Wednesday in March. -Courier.

that the budget contain \$4000 for the

The program and entertainment

completion of the Sandlake road.

Harry Viereck Goes to England.

Frank Viereck, a resident of Astor-Philadelphia, sailed from that city on army, medical department.

Dr. Viereck is a son of Mr. and Mrs

in the Nehalem Valley April 10, 1885 proprietor of a bakery. The young portunity to see the local boys in of Portland for several years, living School plays here Jan. 13 and Newat 495 East Pine Street.

He is an honorary member of the between semesters will play several Multnomah Amateur Athletic Club games in the Willamette valley and and graduate from the Universary of enthusiam at the high school is at mental in building the first school Oregon. He is also a graduate of the high pitch.

> of Pennsylvania and belongs to Alpha Tau Omega and several other college

He was prominent in student affairs at both Oregon and Pennsylvania universities and was married 1916, sell at private sale the whole, only last year in San Francisco to one

or any portion thereof as may be necessary, of the following described of the popular young society women real property, situate in Tillamook County, Oregon, to-wit: Lot 8, of Block 12, of Necarney of that city. He will be accompanied City, and Lot 4, of Block 7, and Lots 4 and 5, of Block 8, in Tohl's Ad-Dr. Viereck for the past year or two has been actively identified with dition to Nehalem City.

Said sale to be made in pursuance of an order of the County Court of Tillamook County, Oregon, made on the 24th day of November, 1916, Said

date.

1916

Store.

Garibaldi Defeats Tillamook.

The Garibaldi Athletic Club and The Garibaldi Athletic Club and tor at his residence in Nehaelm, Ore-teams met on the local floor Friday gon, from and after the above named evening and the local team was defeated 28 to 24.

Those who failed to witness this contest missed a game that was clearly up to the standard of any played last year and was clean and fast throughout, showing none of the ruggedness of early' season games. Mrs. Hugh Cook, Scottsville, N. Y., The visitors deserved a victory and says: "About five years ago when we the score just about measures the playing of the teams.

These two teams will meet again Remedy and found it just as reprenext Friday evening at Garibaldi sented in every way. It promptly where the High School boys are determined to even up the count between the two teams.



H. T. Botts, Pres, Attorney at-Law.

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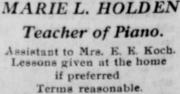
John Leland Henderson, Secretary Treas., Attorney-at-Law and Notrary Public.

Tillamook Title and Abstract Co.

Law, Abstracts. Real Estate, Insurance. Both Phones.

TILLAMOOK-OREGON.

BRAVE THE WIND TOWER'S AND STORM in the best wet ASI BRND weather togs ever invented the FISH BRAND EX SLICKER (PATENTED)\$3.00 PROTECTOR HAT 75 Dealers everywhere Our 80 th year.



sale will be made for cash or upon such terms as may be approved by the County Court. Bids will be received by the execu-Dated this 25th day of November, Executor of the Estate of Mattie B. Oliver, De-