

How Fast Does Tho't Travel

Interesting Experiments Made by Professors of Columbia University--A Mechanical Parallel.

Some interesting experiments have been made recently by professors of the Columbia University to determine the time required for thought to travel from the brain to the tip of the finger in piano-playing. In this connection it is of equal interest to know that the time required for the transmission of the blow upon the key of the instrument to the point of contact of hammer and string is about the same as that of thought of brain to finger tip.

When a note is struck upon an upright piano there are brought into play something like 58 separate parts of the action, and this mechanism must be so delicately adjusted that it will respond as quickly as the brain, nerves and muscles of the human body; otherwise a perfect rendering of any music would be impossible.

Competent judges say that these points have received the most careful consideration in the Eilers piano, and the action is so constructed as to produce a pliant, easy and responsive touch, combined with great elasticity and power of repetition.

We have a fine display of Kimball pianos on exhibit, including the world-renowned Chickering, Solmer, Lester, Smith & Barnes, and other reliable instruments, at a saving to you of \$75 to \$250.00. This is an opportunity of a lifetime. Many instruments have been sold during the last week to some of the best homes in Dallas. In the last few years over 200 homes in this city have purchased from the Eilers Music House, the Nation's Largest Piano Dealers. This in itself is proof positive that we handle the best that money can buy.

Note some of the low prices during our special big piano sale:

- Regular \$300 pianos now.....\$198
- Regular \$350 pianos now.....\$218
- Regular \$400 pianos now.....\$248
- Regular \$450 pianos now.....\$318
- Regular \$800 player-piano.....\$550

Etc., etc.

There is yet time; come now. Call in today and make your selection. We make terms to suit your convenience.

Buy Now—Come In Now—Today.

EILERS' PIANOS

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OPEN EVENINGS.
A. T. NUNNELLY,
Special Representative.
North of Court House—Mill Street,
DALLAS, OREGON.

McMinnville School Girl Writes of Polk County

Some time ago Secretary Walter L. Tooze, Jr., of the Dallas Commercial Club, received a request from Miss Anyee Agee, a student of the McMinnville public schools, asking him for information in regard to Polk County, so that she might be able to prepare an essay on that subject, as a part of her school exercises. He very promptly provided her with the necessary data, and the following article is the result of her quest. She is 14 years old and is a member of the eighth grade:

Polk County.
Polk County is in the heart of the world-famed Willamette Valley. It is about 25 miles in width, and extends from the Willamette river, its eastern boundary, 35 miles westward to the summit of the Coast Range of mountains. Two-thirds of the area of the county is in the broad prairies of the valley and the low foothills. The other third lies along the western boundary, where the densely timbered coast mountains rear their heights between the valley and the Pacific, which is but 20 miles away.

Soil Formation.
The soil is of three general classes: That of the valley is a rich, black loam, over a clay subsoil. It is very fertile and will produce all kinds of grain, fruit and vegetables without irrigation. The soil along the streams is a sandy deposit of earth and decomposed vegetable mould, and is adapted to hop and vegetable culture. The soil of the foothills is a red or brown loam, which is best for farming. This is where Polk County raises her fine Angora goats and sheep, and there also are the vast orchards of apples, prunes and pears. The mountain land, when cleared, produces an unlimited quantity of pasture grasses, and is an ideal place for herds of cattle, sheep and goats.

The ocean gives Polk County an invigorating breeze and the nights

are always cool. The rainy season prevails in winter, but cyclones, blizzards and thunder storms are unknown. The climate of Polk County in general makes it a very desirable place to live.

The people are energetic townsmen and farmers. They have placed the county where it has no debt, and all warrants are cashed on demand. The large court house in Dallas was constructed of Polk County stone, and is paid for, while taxes are growing lighter each year.

Educational Facilities.
The county has excellent educational facilities. The Oregon State Normal School is at Monmouth; the Dallas College at Dallas; and Independence, Dallas and Falls City maintain excellent high schools.

Dallas, the county seat, is a thriving little city of about 3000 inhabitants. It has an air of solidity that makes an immediate impression. The surrounding forests are being used for commercial purposes and the sawmills employ large numbers of men. Factories and new enterprises are meeting with encouragement wherever introduced. There are two sawmills, one foundry, an axle-handle factory, one flouring mill, eight prune dryers, eight hop dryers, three wagon shops, one creamery, two good hotels, two banks and a soda works in Dallas. The electric light plant supplies other towns than Dallas with light and electric power. Besides these, there are numerous other sawmills near the city. The principal streets are macadamized and curbed, and a sewer system has been installed. In Dallas there are eight churches, of different denominations. The Evangelical college, besides the public schools, furnish the young people a chance for a thorough education at home.

Polk County's excellent location, healthful climate, and friendly class of people, is destined to make it become a famous section of Oregon.

DAMES AND DAUGHTERS.

Mrs. John Hays Hammond, the wife of the famous mining engineer, does her own housekeeping, is chairman of the woman's welfare department of the Civic federation and writes for the magazines.

Mrs. Gore, wife of the blind senator from Oklahoma, graduated from a law school so as to help her husband. He collaborates with her on his speeches, and when he wants to memorize a particularly fine oration she reads it to him until he knows it by heart.

Baroness de Laroche, besides being the first licensed woman aviator in France, is the first woman to make a flight in the presence of royalty. At a recent aviation meet in St. Petersburg, which was attended by the czar, the baroness rose to the height of 150 meters.

The oldest woman Alpinist in Switzerland, still on the active list, is Mme. Louise Favre, a widow, aged eighty-one, who lives in a hamlet near Bex, canton of Valais. Recently she climbed up the Chamossaire, a mountain 6,940 feet high, with one of her grandsons in order to light a bonfire on the summit in honor of a local festival.

Sporting Notes.

Athletics at the University of Wisconsin cost \$35,669 last year. The statement shows a balance of \$1,402.

Harry Davis will manage the Cleveland Americans next year. Davis, while captain of the Athletics, helped

to win four American league pennants and two world's championships.

Ernest Barry, the English professional sculling champion, has challenged Richard Arnot of Australia, the world's professional champion, to race for the title on the Thames river, London.

Manager Frank Chance of the Cubs says he will resume his old position at first base when the season of 1912 opens. Last August Chance was compelled to retire from the game for the remainder of the season as the result of stopping a ball with his head at Cincinnati.

To Farmers.
After you have registered your farm name, come to The Observer office and leave an order for some up-to-the-minute printed stationery bearing your farm name. We'll do the work for you at reasonable rates and with dispatch. Printed stationery has a distinctiveness all its own and lends a dignity to your business and even your social correspondence.

On Friday, November 24, at Staffin's you can have your eyes examined by an expert. Glasses furnished at moderate cost if needed, in any style desired. Drs. Freeze & Rice, eye specialists.

Things You Have Wanted and Couldn't Get

That's what you will find at Dallas' new Book and Art Store, at 428 Main Street, where a stock of Books, Stationery, Pictures and Art Goods as modern as those of the best city stores is now ready for your inspection.

Our stock is not all here yet, but shipments from the East are arriving every day, and our shelves will soon contain every article carried by a first-class book and art store.

We are Going to Make Your Christmas Shopping Easy

by offering a wide selection of beautiful gifts for old and young. A lady customer said the other day: "I can purchase every gift I need without leaving this store." You may be sure that compliment was appreciated. We are going to try to show this appreciation by offering you the most beautiful and modern Christmas goods ever displayed in a Willamette Valley store.

Watch our Show Windows and Our Newspaper Advertisements

It will help you, and it will help us. We are going to sell goods right, because we know how and where to buy them right. We want you to come and see us, whether you are ready to buy, or not. The new goods are selling fast, and we want you to see the display before it is picked over.

J. C. HAYTER

Dallas Book and Art Store

428 Main Street, Dallas, Oregon

LAST WEEK OF BIG REMOVAL SALE

Take advantage of Big Bargains at once.

Dallas Variety Store

Mrs. Charles Gregory, Prop.

If you have rooms for rent, place a card in your window saying so. For sale at Observer Job Office.

Whooping Cough

It is an old saying that whooping cough must run its course, but the use of Dr. Bell's Pine-Tar-Honey has demonstrated beyond doubt that such is not the case. It can be cured by the use of this remedy.

O. A. C. Short Courses

Begin Jan. 3, Continue Four Weeks

YOU ARE INVITED

Every citizen of Oregon is cordially invited to the short courses of the Oregon Agricultural College, beginning Jan. 3. Eleven distinctive courses will be offered in Agriculture, Mechanical Science and Art, Commerce, Forestry, Music. Every course is designed to help student in his daily work. Make this a pleasant and profitable winter outing. No tuition, reasonable accommodations. For beautiful illustrated bulletin, address

H. M. TENNANT, Registrar, Corvallis, Oregon

Farmer's Business Course By Correspondence

SMOKE "ZU ZU"

The best 5 cent cigar on any market. Your dealer should have it.

H. S. Gile Grocery Co. DISTRIBUTORS Portland and Salem

CATARRH



HAY FEVER ELY'S CREAM BALM

Applied into the nostrils is quickly absorbed. GIVES RELIEF AT ONCE. It cleanses, soothes, heals and protects the diseased membrane resulting from Catarrh and drives away a Cold in the Head quickly. Restores the Senses of Taste and Smell. It is easy to use. Contains no injurious drugs. No mercury, no cocaine, no morphine. The household remedy. Price, 50 cents at Druggists or by mail. ELY BROTHERS, 56 Warren St., New York.

Blind
Mrs. Ellie Tiler, Ravenna, Texas, writes: I was blind as a bat. I used Sutherland's Eye Salve and it acted like a charm. It cut the scum off my eyes and restored my sight. It is all you claim and worth its weight in gold. 25c a tube.

Walter L. Tooze, Jr., lawyer, Williams bldg.

Legal blanks for sale at this office.

OVER 65 YEARS EXPERIENCE

PATENTS

Anyone sending a sketch and description quickly ascertain our opinion. Free. Our invention is probably patentable. Copyrights taken free. Oldest agency for securing patents taken through Munn & Co. special notice, without charge, in the Scientific American.

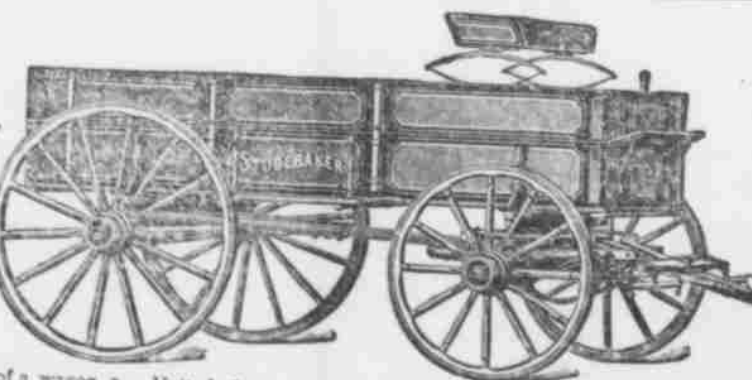
A handsomely illustrated weekly. Largest circulation of any scientific journal. Yearly subscription, \$1. Sold by all news-dealers. Munn & Co., 361 Broadway, New York. Branch Office, 625 F St., Washington.

Dr. Bell's Pine-Tar-Honey Will break up the worst cold. It also shrills ridu mrdin etc. It lay throat irritation. This quickly cures coughs, colds, and all throat and bronchial troubles.

Cheap Imitations
Owing to the immense sale and popularity of Dr. Bell's Pine-Tar-Honey there are many cheap imitations on the market under similar names, but you can always get the genuine by looking for the name on the bottle.

Dr. Bell's Pine-Tar-Honey Will break up the worst cold. It also shrills ridu mrdin etc. It lay throat irritation. This quickly cures coughs, colds, and all throat and bronchial troubles.

How a Studebaker Saves You Money



THE way to figure the cost to you of a wagon, a carriage, a buggy or a set of harness— is to figure the cost for year as long as you use it.
If a farm wagon, for example, that costs you \$300 lasts 20 years and requires only \$2 repairs, the cost to you of that wagon is \$3.10 a year.
If another wagon costs only \$200, and lasts 10 years, and requires \$10 worth of repairs, the cost to you is \$4 a year, at least.
Which is the cheaper?

There is no doubt about the leather qualities of Studebaker wagons, carriages and harness.
It's the material that goes into them— plus the way they are made.
Studebaker farm wagons have axle, 4 1/2 inch deeper than others, made from selected best-cut Black Hickory— air-dried from 3 to 5 years.
The axles are also reinforced with a special bar of steel running from the heel of one skin to the other.
The Studebaker Patent Truss Skins are made from cast iron having a transverse strength of over 2000 pounds in the square inch—25% greater than the requirements of the

United States Government—and probably 50% greater than the ordinary wagon.
The Studebaker hubs are large in diameter— furnishing a proper foundation for the spokes. They are treated with a secret solution which greatly adds to their weather resisting qualities.
The Studebaker spoke-holders— one of the greatest improvements ever made in wagon building— carry the largest amount of wood into the hub. They are designed where other spokes are weakest.

The Studebaker patented round-edge tires are reinforced and coated. That's why they never loosen.
And so on— point by point— feature by feature— something that will add to the durability and long life of the Studebaker is overlooked.

Do you wonder that it lasts?
Do you wonder that it is the wagon with a reputation behind it?
Yes cannot afford to buy a "cheap" wagon, when you can get the best for so little.
It is poor economy to be constantly paying out money for repair bills.
Get a Studebaker and save money.
Come in and let's talk it over.

We Are the Studebaker Agents

CRIDER'S GENERAL STORE DALLAS, OREGON.