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The Telephone-Register.

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REGISTER—Established August, 1887—Consolidated Feb. 1, 1889.

McMINNVILLE, OREGON, THURSDAY, APRIL 28, 1892.

VOL. IV. NO. 13

UNION HARDWARE CO.

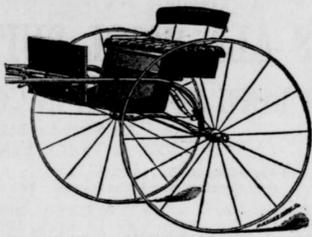
The Famous "ADA" Road Cart

PATENTED.

This Cart is considered by all those who have used or seen it to be the

MOST BEAUTIFUL, PRACTICAL AND EASY RIDING

Two-wheeled Vehicle ever invented. Descriptive Circular giving Prices, Testimonials, Etc., Free.



VILLA PRESTON CART.

A Strictly High Grade Cart, finished as well as a buggy. The ADA CARTS are the finest ever brought to the State. Don't fail to see them before buying.

We Have Also

The Nobbiest Road Wagons You Ever Saw!

In fact we have the complete line of Carts, Road Wagons, Hacks, Buggies, etc., in the State outside of Portland, and want you to call and examine them and get our prices.

BEAR IN MIND

That we pay no Jobber's Profits, but are, in fact, jobbers ourselves, and buy our goods at jobber's prices.

UNION HARDWARE CO., McMinnville, OR.

J. D. BAKER,
SURGEON AND HOMEOPATHIC PHYSICIAN.
Office Upstairs in the Garrison Building.

RAMSEY & FENTON,
ATTORNEYS-AT-LAW.
McMinnville, Oregon.
Office, Rooms 1 and 2 Union Block.

CALBREATH & GOUCHER,
PHYSICIANS AND SURGEONS.
McMinnville, Oregon.
(Office over Braly's Bank.)

J. C. MICHAUX,
PHYSICIAN AND SURGEON.
LAFAYETTE, OREGON.
Jan. 21, '92.

TURNER & KENT,
SURGEONS AND PHYSICIANS.
Specialty of surgery and diseases of women.
Union Block - McMinnville, OR.

WM. HOLL,
Watchmaker and Jeweler.
Dealer in All Kinds of Watches, Jewelry, Plated Ware, Clocks and Spectacles. McMinnville, OR.

McMinnville
TRUCK AND DRAY CO.,
CARLIN & COULTER, Proprietors.
Goods of all descriptions moved and careful handling guaranteed. Collections will be made monthly. Hauling of all kinds done cheap.

For Sale.
Two miles from McMinnville, near St. Joe, a small farm of 16 acres, 13 acres in cultivation, also a good house and barn; about 200 fruit trees, mostly prunes, besides small fruit; one horse and wagon, 3 cows, 2 hogs, 2 pigs, 40 chickens, 7 tons of hay, quantity of potatoes, plows, harrows, etc. Reason for selling declining health. For further particulars inquire of
T. BOSMOWORTH

Facts Worth Remembering

— THAT —
BURNS & DANIELS
Have the Largest Stock of
Furniture, Wall Paper, Carpets, etc.,
In the valley outside of Portland.

— THAT —
They can and will sell for CASH, or a reasonable length of time, cheaper than the public have ever been able to buy.

— THAT —
This does not mean six months or one year, and then 10 per cent. to our attorney for collection.

— THAT —
It is a mistaken idea that goods can be sold as cheap on time as for Cash.

— THAT —
The proposition is this: That CASH IS THE BASIS, and that those who allow their names to go on our books must pay from 5 to 10 per cent. for that luxury.

BURNS & DANIELS.

The People's Market.
Carries the Best Line of Choice Meats in the City. Game and Fish in Season. Poultry, hides, etc., bought for the highest market price and cash paid for same. Your attention is called to the fact that we always serve the best meats to be found. Your patronage is solicited.
BOND & FLETCHER.

J. W. COWLES, LEE LAUGHLIN, E. C. APPERSON
President, Vice President, Cashier
McMinnville National Bank.
McMinnville, Oregon.
Paid up Capital, \$50,000.

Transacts a General Banking Business, Deposits Received Subject to Check. Interest allowed on time deposits. Sell sight exchange and telegraphic transfers on New York, San Francisco and Portland. Collections made on all accessible points. Office hours from 9 a. m. to 4 p. m.

ORGANS!

Another Carload on the way from the factory!
Sold at Strictly Eastern Prices; And Every Instrument Guaranteed for Six Years

Music makes home pleasant and cheerful, and when you can buy an Organ for the \$50 you should not deny the \$50 wife or children the refining influence of music.

A full assortment of VIOLINS, BANJOS, GUITARS AND ACCORDIONS.
CHAS. GRISSEN.

REAL MERIT

Does the Advertising

Filler NO. 1
If you take pills it is because you have never tried the
S. B. Headache and Liver Cure
It works so nicely, cleansing the Liver and Kidneys; acts as a mild physic without causing pain or sickness, and does not stop you from eating and working.
To try it is to become a Friend to it.
For Sale by ROGERS BROS.

CARD OF THANKS.

Prompted by gratitude to Dr. DeFrey, the European specialist, who has succeeded in curing me of chronic kidney, liver and gastric sickness, for the treatment of which I had consulted a number of other physicians, through which I was brought to the verge of despair, fearing I never could be cured, I consider it my duty to recommend him to my fellow citizens who may be afflicted.
W. K. WHITE,
Whiteson, Yamhill Co., Oregon.

Dr. DeFrey, corner of 1st and Pine streets, rooms 6 and 7, can be consulted free on all chronic diseases of both sexes. The cures of private diseases, such as Loss of Manhood, Impotency, Errors of Youth, Stricture, etc., (his principal specialties by dint of his European hospital experience), are never published.

Correspondence P. O. Lock Box 329, Portland, Oregon.
Office hours from 10 a. m. to 4 p. m. and from 8 to 9 o'clock in the evening.

J. B. ROHR,
House, Sign, and Ornamental Painter
The Only Sign Writer in the County.
Homes fitted up in the Neatest and Most Artistic Style.
Designs furnished for Decorations
Remember Paper Hanging and Inside Furnishing a Specialty.
Work taken by Contract or by Day. Experienced men employed.
Third Street, McMinnville, Oregon.

DERBY & BOYER,
Proprietors of The McMinnville
TILE FACTORY
Situating at the Southwest corner of the Fair Grounds. All sizes of
First-Class Drain Tile
kept constantly on hand at lowest living prices.
DERBY & BOYER,
McMinnville, Oregon.

WANTED. SALESMEN
Local and Travelling.
To represent our well known house. You need no capital to represent a firm that warrants ninety stock first-class and true to name. WORK ALL THE YEAR. \$100 per month to the right man. Apply quick! standing age. Nurseryman, F. L. L. MAY & CO., St. Paul, Minn.

Tickle The Earth
With a Hoe, SOW FERRY'S SEEDS and water.
Seeds largely determine the harvest—always plant the best—FERRY'S.
A book full of information about Gardens—how and what to raise, etc., sent free to all who ask for it. Ask today.
D. M. FERRY, DETROIT, MICH.

WE WANT YOUR EYE

Points to Remember for 1892, in the purchase of Groceries.

Fully one-half of the People do not stop to consider the money they can save during the year in purchasing goods of a firm that pays strict attention to the selling of First Class Goods at a Small Profit.

People usually go to the nearest place regardless of cost. We sell our goods cheap and deliver them at your door. You will be able find every thing in the grocery line in our store.

We are in it—The Grocery Business, and we will always give you the best goods in the city for the money. We give cash or trade for all produce, suit yourself in the matter.

MILLSAP & SON.

Combination? Yes

O. O. HODSON
HAS MADE A BIG COMBINATION!

I have enlarged my store and have combined a full and complete stock of Sash, Doors, Mouldings, Glass, Paints, Oils, Varnishes, Brushes, and everything belonging to this class of goods.

Have also Combined a Line of Fishing Tackle & Guns

This with my Immense Stock of
HARDWARE, STOVES AND TINWARE
ALTOGETHER MAKES A COMPLETE COMBINATION
As to stocks, but not with any other firm or men.

I STILL RUN MY BUSINESS AT THE OLD STAND, WHERE PRICES AND GOODS CAN'T BE BEAT.

Call and see me before buying.

O. O. HODSON.

\$3000 A YEAR! I undertake to bring you a steady income of \$3000 a year, if you will invest \$1000 in my business. I will give you a full and complete course of instruction, and will see that you are successful. I will give you a full and complete course of instruction, and will see that you are successful. I will give you a full and complete course of instruction, and will see that you are successful.

When Baby was sick, we gave her Castoria.
When she was a Child, she cried for Castoria.
When she became a Woman, she clung to Castoria.
When she had Children, she gave them Castoria.

THIS PAPER is on file in Philadelphia at the Newspaper Jobbing Agency of Messrs. W. W. AYER & CO., our authorized agents.

THREE BLAZING TAILS.

ITS 100,000,000 MILES AWAY, BUT HAS BEEN PHOTOGRAPHED.

The Biggest and Brightest Comet Since 1882—Some Facts About Dr. Lewis Swift's Discovery—What a Comet's Tail is Made of.

The following notes by Prof. E. E. Barnard, and astronomer whose reputation is world-wide, and who has himself discovered some fourteen or fifteen of these wandering stars, contain the announcement of certain wonderful discoveries recently made at Lick Observatory in the behavior of Dr. Swift's latest cometary find.

Prof. Barnard also gives some explanation of the accepted theory of comets which, coming as it does from one of the highest authorities in the scientific world, cannot fail to awaken great interest among the reading and thinking public.

It will be remembered that on March 12th I called attention to Swift's comet, discovered March 7, as being a naked eye object and worthy of the attention of the public. At the time of the observations then described the comet appeared to the naked eye as a hazy star of the fifth magnitude, but with no traces of any tail. The telescope, however, even at that time showed signs of an incipient tail and small nucleus.

Since then the comet has been increasing rapidly in brightness and has developed a large tail and active nucleus. It presents a striking appearance as seen by the naked eye at about 4 in the morning.

Continued cloudy weather here prevented any view of the comet for over a week. Sunday morning, April 5, however, the sky cleared superbly and observations were again permitted. I was at once struck by the tremendous growth of the comet. To the naked eye the head was as brilliant as a star of the third magnitude, and a long slender tail could be easily traced to a distance of twenty degrees from the head. I carefully sketched the place of the tail among the stars and accurately measured the position of the nucleus with the micrometer. The telescope view was very suggestive and revealed a complexity of tail that was remarkable. The nucleus was bright, and faint indications of the fans customary in great comets were seen. The head, however, appeared in rather an undeveloped condition.

On Monday morning, through haze and clouds, I secured a striking photograph of the comet with the Willard lens of the observatory tied on to the six inch equatorial. This photograph reveals a remarkable state of affairs. Spreading out from the head is shown a complicated system of tails. Of these there are three principal ones, the southern of which is the most distinct. These tails are again subdivided into a great number of others, the entire appendage presenting a most unique appearance. At least a dozen distinct branches can be counted on the photograph, some of which present remarkable curvatures. This complicated structure was not visible in the telescope on the preceding morning, and gives evidence of rapid changes.

Monday morning there were two distinct and diverging branches of tail emanating from the head, both clearly visible in the glass. The telescope view on Tuesday morning exhibited the fact that in less than twenty-four hours a third tail had formed, to the extent of about 10,000,000 miles, while the northern tail, which had been very bright the previous morning, had entirely disappeared.

On Wednesday, April 6th, still more remarkable phenomena had presented themselves, and portions of the tail were seen to form abrupt angles with their original source. A stream of hazy light shooting out from the head often to vast distances, forms the tail. In the brighter and more active comets graceful "envelopes" are seen to rise from the nucleus and gradually diffuse themselves into the outer parts of the head, giving to it the parabolic outline of which is usually that of a parabola. In the head is the small star-like body called the nucleus. A stream of hazy light shooting out from the head often to vast distances, forms the tail. In the brighter and more active comets graceful "envelopes" are seen to rise from the nucleus and gradually diffuse themselves into the outer parts of the head, giving to it the parabolic outline of which is usually that of a parabola.

Comets seem to shine with their own light, and also by reflecting the light of the sun. A fully developed comet consists of three parts, the head, nucleus and the tail. The head is a mass of foggy matter the outline of which is usually that of a parabola. In the head is the small star-like body called the nucleus. A stream of hazy light shooting out from the head often to vast distances, forms the tail. In the brighter and more active comets graceful "envelopes" are seen to rise from the nucleus and gradually diffuse themselves into the outer parts of the head, giving to it the parabolic outline of which is usually that of a parabola.

The nucleus is a close approach to the sun, the nucleus becomes extremely active, and a stream of small particles is continually thrown off from it. This is the first large comet which has appeared since the development of those processes which have made celestial photography such a marvelous success. The great comet of 1882 was successfully photographed by Dr. Gill at the Cape of Good Hope, but even then the application of dry plate photography to astronomy was in its infancy, and doubtless many of the striking phenomena present in that comet failed to record themselves through lack of sensitiveness in the plates.

The curious phenomena presented in the photographs which have been secured of Swift's comet must result in considerable modification of the accepted theory of cometary tails, since some of the theories cannot be accounted for on the old lines of reasoning.

This morning for a few minutes between the setting of the moon and dawn the object of the comet was a conspicuous object to the naked eye, and easily traceable for twenty degrees (forty times the sun's diameter). The head and nucleus shone with the brightness of a third magnitude star. Astronomers are not clear as to the matter of which a comet is really composed. The spectroscopic results are somewhat conflicting. The visual observations show us that a comet must be composed of matter of some kind compared with which the lightest haze in our atmosphere is solidly it-



A YOUNGER AND FAIRER RIVAL.

OLD MISS REPUBLICAN—Can My Charms Be Upon The Wane?

self. The excessive tenuity of this matter is shown by the fact that the faintest stars shine through many millions of miles of it without any sensible loss of light. As to the nucleus of a comet—and this appears very solid—we are in doubt. From its small size the nucleus of a comet has never been observed to pass directly over a considerable star, but stars are frequently seen shining through the most condensed part of the head without the slightest loss of light. It has been suggested that the head of a comet may be composed of individual small particles not larger than grains of dust mixed with gaseous matter.

The hydro-carbon bonds are seen in nearly all comets sufficiently bright to give a spectrum. Sodium and magnesium are also present in some of the comets. The vapor of iron was detected in the great comet of 1882 when near the sun. The spectrum usually consists of bright bands which indicate the presence of an incandescent gas. But the gaseous matter which is shown to exist may be of a nature wholly unlike anything we have on the earth, and the spectrum is therefore not satisfactorily accounted for, according to Newcomb. Yet there is a very strong probability that comets are composed principally of gaseous hydrocarbons.

As to the mass or weight of a comet, it has never been possible to determine this in any case. It has however been possible to determine in some comets that it must be below a certain value. From the near approach of Lexell's comet to the earth in 1770, Laplace calculated that the mass of the comet could not exceed the one three-hundredth part of the mass of the earth, or less than one-fortieth the mass of the moon.

It is not improbable that either of the tiny moons of Mars may have a larger mass or weight more than many of the largest comets, though some of these with their tails have been thousands of times greater than the sun itself.

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come visible—just as we see the sun-beam in a darkened room by the reflection of its light from particles of dust. The tail of a comet, therefore, is not formed today of the same particles that composed it yesterday, or even an hour ago. It is constantly being renewed at the expense of the nucleus, as the long stream of smoke from a steamer is continually formed by fresh particles of carbon.

How infinitely small must be these particles that go to make up the tail of a comet is shown when we consider the smallness of the nucleus, which rarely exceeds a few hundred miles in diameter, and the enormous magnitude of some of the cometary tails which have stretched away across space for two hundred million miles, and which have exceeded ten thousand times the bulk of the sun itself! And yet with this tremendous drain upon it the nucleus scarcely seems diminished in size.

The formation of a tail of a comet has been beautifully illustrated thus: Suppose for example the nucleus be composed of ice. Suppose the heat of the sun be so great that it rapidly melts that portion exposed to his rays and converts it into vapor which rapidly ascends towards the sun. Imagine now a fierce wind blowing out from the sun.

The vapor as it ascends meets this wind and is whirled out into space beyond the comet. This will clearly illustrate the theory of the formation of the tail, only the nucleus is not water vapor, and the force that drives the matter away from the sun is not a fierce wind.

This unknown force readily explains the fact that a comet's tail in general points nearly away from the sun. Were the comet approaching or receding in a straight line, the tail would always point away from the sun, but as the comet's path is in a curve and it is moving very rapidly in this curve, and the transmission of the particles to the full extent of the tail is not instantaneous, the tail will be thrown more or less to one side of the line through comet and sun, and will also be somewhat curved, with its convex side toward the region which the comet is approaching. The amount and direction of curvature will depend on the velocity of the comet in its orbit and the velocity of emission of the atoms of the nucleus.

If we watch the different comets we find that some have very straight tails such as the comet of 1843, while others have very graceful, curved tails, like an immense feather, such as that of 1858. These peculiarities in the tails of comets led Bredichin, the eminent Russian astronomer, to investigate the force that repels the particles. He distinguished three different types of tail. The very straight tails he supposed to be composed of particles with the specific gravity of hydrogen. Such particles under the repulsive force would have the greatest velocity and would therefore produce a straight tail pointing more directly away from the sun—such as that of 1843. The motion of the comet in its orbit would not be sufficiently great during the transmission of the particles from the nucleus to the end of the tail, to produce any curvature in the tail.

In another type he would represent is 29.93 gallons.

The daily water supply of London is 175,148,189 gallons, of which about 90,000,000 gallons is drawn from the river Thames and a little over 85,000,000 from the river Lea and from various artesian wells. The average supply per capita in another type he would represent is 29.93 gallons.

Dr. Price's Cream Baking Powder
CONTAINS NEITHER AMMONIA, ALUM OR ANY OTHER INJURIOUS DRUG.

The Wisconsin Dairy and Food Commissioner says
In his Annual report for 1890, on page 82:
"The NATIONAL DISPENSARY says of Carbonate of Ammonia: 'It is irritant, and if long continued, even in doses which the stomach will tolerate, it impairs nutrition; in doses of five to ten grains it increases the fullness and force of the pulse and causes a sense of lightness in the head. It is one of our most powerful medicines and certainly should not be used in the preparation of foods.'
On page 85 the report further states:
"The result of experiments would indicate that the residues in bread made from Alum Baking Powder, have a decided effect even on a strong and healthy stomach. The weight of testimony is decidedly against the use of ALUM.
The following powders contain either ammonia or alum, or both: Royal, Calumet, Forest City, Pearl, Univalled, Echo, Crown, Chicago Yeast, Bon Bon, Star, New Era, Snow Ball, Zipp's Grape Crystal.

particles as having the specific gravity of hydrocarbon gas. These would be repelled with a less velocity, and would therefore through the motion of the comet in its orbit produce a tail more curved, and which would not point so nearly away from the sun. The third type in which the particles move the slowest of all, is represented by the tails of great curvature. The particles in this type of tail would suppose to have the specific gravity of iron vapor. In this the particles would be still less effected by the repulsive force, and through the comets motion would give a tail very much curved. The second type of tail is the most common. The spectroscopist has revealed in such throughout their full extent the presence of hydrocarbon gas, which certainly suggests that the theory is correct for that type. There have been no striking examples of the other two types since the application of the spectroscopic to such study, and it is therefore not proved in these two cases that the tails are composed respectively of hydrogen and iron vapor.

E. E. BARNARD,
Mount Hamilton, April 14th.

The Lover's Lament.
Your face is like a drooping flower,
Sweetheart!
I see you fading, hour by hour,
Sweetheart!
Your rounded outlines waste away,
In vain I weep, in vain I pray,
What power Death's cruel hand can [stay? Sweetheart, Sweetheart!

Why, nothing but Dr. Pierce's Favorite Prescription. It imparts strength to the falling system, cures ovarian trouble and for debilitated and feeble women generally, is unequalled. It dispels melancholy and nervousness, and builds up both flesh and strength. Guaranteed to give satisfaction in every case, or money paid for it refunded.

Secretary Elkins really has some reason for claiming that his official duties are so trenching upon his private life as to leave him little time for domestic enjoyment, if it be true that, since his appointment to office, he has never yet sat down to dinner without seeing some political guest with his feet under the Elkins mahogany.

Emma Abbott's request of \$5000 to the trustees of a Brooklyn church will be expended in improving the pipe organ in the church and in giving it a purer and more pleasing tone than it had when Emma had its accompanying to her first efforts as a singer.

Mr. Blaine's athletic training under Prof. Muldoon possibly means something more than improvement in his health. Falling to twist the tail of the British lion he may have an idea of challenging Salisbury to the prize ring and fight it out at that arena.

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