VOL. V. NO. 10

## Circulation Guaranteed Greater Than That of Any Other Paper Published in Yamhill County.

GISTER Established August, 1881. Consolidated Feb. 1, 1889.

McMINNVILLE, OREGON, THURSDAY, APRIL 6, 1893.

RUCK AND DRAY CO.,

ALBREATH & GOUCHER, PHYSICIANS AND SURGEONS. (Office over Braly's Bank.)

D. BAKER,

SURGEON AND HOMEOPATHIC

PHYSICIAN. Office Upstairs in the Garrison Buildin

ATTORNEY-AT-LAW.

Office, Rooms 1 and 2 Union Block. W. M. RAMSEY,

ATTORNEY-AT-LAW. McMinnville, - - - Oregon

Office: Rooms 6 and 7 Union Block. J. P. TURNEY,

SURGEON AND PHYSICIAN. Specialty of surgery and diseases of wor

UNION BLOCK - McMINNVILLE, OR. J. C. MICHAUX,

PHYSICIAN AND SURGEON.

LAFAYETTE, OREGON

W. F. DIELSCHNEIDER,

Watchmaker and Jeweler.

ealer in All Kinds of Watches, Jewelry, Plated Ward Clocks and Spectacles, McMINNVILLE, OR. THE COMMERCIAL STABLE!

Gates & Henry, Props.

McMinnville, Livery, Feed and Sale!

Everything New And Firstclass.

Special Accommodations for Commercia

MCMINNVILLE NATIONAL BANK

Paid up Capital, \$50,000.

Transacts a General Banking Business, Deposits Received Subject to Check. Interest allowed on time deposits.

Collections made on all accessible points. Office hours from 9 a, m. to 4 p m.

Farm for Sale

Two miles north of McMinnville, a farm of 65 acres, all in good cultivation and good house and barn; all kinds of fruit; 30 acres in grain—a bargain if sold soon. Address:

I. S. Downing,

McMinnville, or at the farm.

JUDGE NELSON'S DECISION.

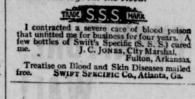
I find an article that will do what it is recommended to 'do, I am not ashamed to say so. I am acquainted with Dr. Vanderpool (having been treated by him for cancer), and have used his blood modicine, known as the S. B. Headache and Liver cure, and while I am seventy-five years old, and have used many pills and other remedies for the blood, liver and kidneys, I must say that for a kidney tonic in Bright's disease, as an alterative for the blood, or to correct the action of the stomach and bowels it is a very superior remedy, and beats anything I ever tried.

J. B. NELSON, Yakima, Wash,
At 50 cents a bottle, it is the poor man's
friend and family doctor.
Sold by Rogers Brothers.



Pimples Blotches

ARE EVIDENCE That the blood is wrong, and that nature is endeavoring to throw off the impurities. Nothing is so beneficial in assisting nature as Swift's Specific (S. S. S.) It is a simple vegetable compound. Is harmless to the most delicate child, yet it forces the poison to the surface and eliminates it from the blood.



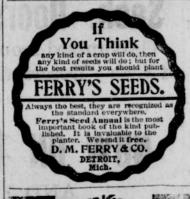


each bottle. Price 25c. For sale by druggists. Picture "7, 17, 70" and sample dose free.
J. F. SMITH & CO., Proprietors, NEW YORK.



KO NO The Favorite TOOTH POWDER

Endorsed by physicians and leading society ladies PATIENTS TREATED BY MAIL. CONFIDENTIAL Harmiess. No Starting. Send 6 cents in stamps for particulars

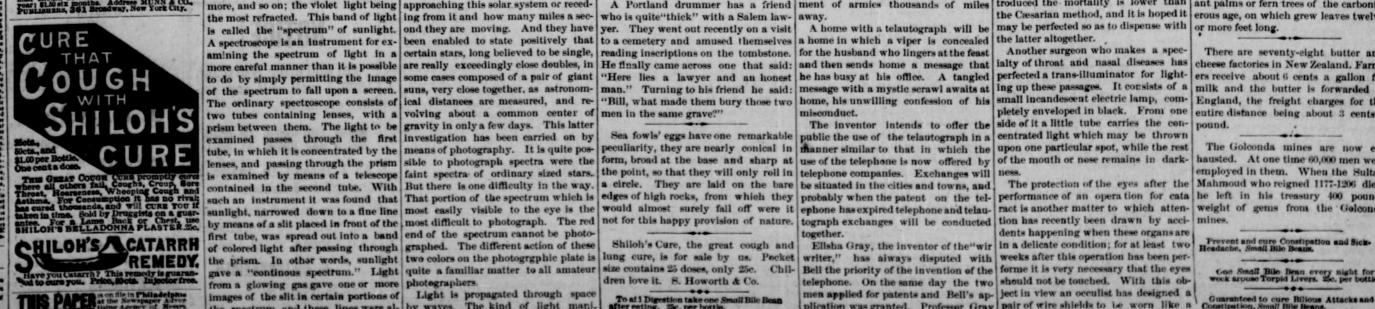




Hypochondria, Melancholia, Inebrity, Sleeplessness, Dizziness, Brain and Spiual Weakness.

Speaking of patent medicines, the judge says: "I wish to deal fairly and honorably with all, and when of nerve fluid. It is perfectly harmless





TELESPECTROSCOPE. HOW THE CONSTITUTION OF A

our Knowledge of Astronomy.

"About 1850 the spectroscope appeared in the field as a new and powerful instrument of astronomical re-"Solar spectrum and its Relations," in Professor C. A. Young's excellent work on "General Astronomy."

patches, whenever they touch on asthe analyzing powers of the spectrotail, or a hydro-carbon tail; that the star to be an exceedingly close doubleso close, indeed, that no telescope it is possible to construct will ever reveal the separate components to our vision that this nebula is "gaseous," or that a certain star contains the elements sodium, iron and magnesium. The specis accepted by scientific men as conclusive, prone as they are to reject theo ries and to require the most indisputable confirmation of every observation

How, then, is it possible for the astronomer to say positively that certain things exist which he cannot actually "see" with his telescope? What is this wonderful instrument that has been of such invaluable assistance to modern investigators in chemistry and astrophysics—so faithful an arbiter that in the yellow portion of the spectrum. If it is receding from the yellow portion of the spectrum. The physics—so faithful an arbiter that in the yellow portion of the spectrum. The physics—so faithful an arbiter that in the yellow portion of the spectrum. physics—so faithful an arbiter that in the spectrum. The spectrum of sunlight a leach line is shifted toward the red end. Sage. The pencil is like any other pending from an with the monkey or any other pending from an with the monkey or any other pending from an with the monkey or any other pending from an interesting from a in a vast number of scientific investi-

sists of two essential parts, the object the solar spectrum.

er), and thus continue to magnify the earth. The soundness of the princi- ments is extraordinary.

self exist without (under favorable condition) exhibiting that line in the spectroscope is almost an infallible method of analysis and infalli

ways the same for the same gas. Thus fested to our eyesight depends upon the heated vapor of the sodium gives a the number of waves received in a secclose pair of bright, yellow lines where ond; that is, upon the rapidity of the the yellow portion of the continuous vibration. Sound is propagated in the solar spectrum would fall. Potassium same way, and the pitch of the sound BE TRUE. in the same way always gives a single depends upon the number of vibrations red line, situated in the extreme red received in a second (the volume de pertion of the continuous spectrum. pends upon the amplitude of these vi-These "lines" in the spectrum are sim- bration). Now when the number of ply images of the slit. Such a spectrum sound vibrations is less than sixteen or To it is Indebted a Great Portion of is not "continuous;" the band is dark more than 38,000 in a second the husave where the characteristic bright man car cannot hear them. Similarly

lamp be examined with the spectro- in a second the human eye does not scope, a continuous band of light is recognize them as light. Below the found, being as Professor Young has former limit we have heat; above the clectric telegraph, brough on Tuesday

spectroscope has proved some familiar chemical constitution of the heavenly The latter may be recorded on the pho-

The principles upon which the science of spectrum analysis depend were antrum or of a stellar spectrum is made nounced by Kirchoff in 1858, and con- a part of the visual spectrum is shown cisely stated are as follows:

(3.) A gaseous substance absorbs tance from the spectroscope. But if equally serviceable and succeasful.

from white light passing through it the star is moving towards us we reprecisely those rays of which its own spectrum consists. Thus we have second than the normal, and each line second than the normal, and each line second than the normal, and each line second than the normal and the regions where the different branches of civilization have sprung have advanced refspectrum consists. Thus we have second than the normal, and each line seen that sodium, in the shape of an is shifted toward the violet end of the little box smaller than a cover of a er a reason. The vermiform appendix atively but very little. We seek in incandescent gas, gives a bright line in spectrum. If it is receding from us we incandescent gas, gives a bright line in spectrum. If it is receding from us we type writer. The sender of a message is a small tube or tissue about as big as vain for the "missing link" connecting become the supreme court of appeals dark line falls in exactly the proper po- Take the analagous case of the whissition of this sodium line it is proof thing locomotive. The whistling has a that gaseous sodium exists in the atcertain normal sound. But if the train has a collar, which is fas-Let us first study the action of an asronomical telescope, fitted with an orronomical telescope, fitted with an orronomi dinary eye-piece. The telescope con- um leaving a dark line in its place in higher.

light and producing a small bright im- many terrestial elements are present astronomers have been able to tell if age at the focus, and the eye-piece which in the solar atmosphere—for example, the star is moving toward or receding is in reality a microscope inserted at iron, hydrogen, sodium, magnesium, from us in the line of sight and at what age and enable it to be viewed with tant stars has been studied by means at the Lick observatory, was enabled

more light than a small one, consequently the image formed by the large lens is brighter, and will stand a greater magnification.

In this way we can study the appearance of one of the heavenly bodies, see markings upon its surface and any changes visible therein. but can tell nothing of the chemical constitution of the body. It is as if a chemist were trying to analyze the liquid in a glass

attachment of a telescope decides all exhibit a great many lines in different ternately approached and receded duction of the message written by the these points for the astronomer by its portions of the spectrum. For instance from us. And it would be possible to the same that the steps of the receiver make the lines a little rough but this there are about 600 lines of iron alone, and of these 460 have been seen in the properties. This is barely noticeable. The "dispersion" of light is a familiar phenomenon, and may be easily illustrated. If a ray of sunlight be permitted to fall upon the surface of a glass prism it will, on emerging from the prism, be transformed from white light into the "prismatic colors," violet, indigo, blue, green, yellow, red

light (admitted through a small aperture in the window) will fall upon the screen in a band of light containing the colors above described, spread out in the order of their refrangibility. The the order of their refrangibility. The spectroscopic examination of the stars are among the most important of the delphos and Energetes, from 183 to 221

which inst came into general use during the reign of the Ptolemies, Philasexperiment will show that the red are among the most important of the delphos and Energetes, from 183 to 221

In war times maps and diagrams was not followed by any serious result. experiment will show that the red light is least refracted in passing through the prism, yellow light still more, and so on; the violet light being the most refracted. This band of light in g from it and how many miles a sec-THAT

COUGH

A spectraceope is an instrument for exmining the spectrum of light in a more careful manner than it is possible on the spectrum to fall upon a served to do by simply permitting the image of the spectrum to fall upon a served. The ordinary spectroscope consists of the ordinary spectroscope or an instrument for exmining the spectrum of light in a more careful manner than it is possible to be simply permitting the image of the spectrum to fall upon a served. The ordinary spectroscope consists of the ordinary spectroscope consists of the ordinary spectroscope is an instrument for exmining the spectrum of light in a more careful manner than it is possible to be simply permitting the image of the spectrum to fall upon a served. The ordinary spectroscope consists of the ordinary spectroscope is an instrument of exmining the spectrum of light in a more developed in spectrum of fall upon a served as a possible to prison between them. The light to be grained to do by simply permitting the image of the spectrum to fall upon a served. The ordinary spectroscope is an instrument of exmining the spectrum of light in a more feet light to be greatly in a spectroscope or same spectroscope or same spectroscope consists of the ordinary spectroscope is an instrument of exmining the spectrum of light in a more feet light to be entered and the spectrum of light in a more described based in front of the spectrum of sunlights, arrowed down to a fine limit and of light in a careful on the case and the cas the most refracted. This band of light ing from it and how many miles a sec- who is quite"thick" with a Salem law- away.

when the light vibrations are less than If the light from an oxyhydrogen 458 or more than 727 million million

lems as to the nature and constitution cleverly expressed it, an infinite number of these slit-images closely packed vibration are present in the sunbeam— cessful test of an electrical machine that had not seemed to be even open for in- like the pickets in a fence. The spec- heating power, lighting power and is a better transmitter of messages than vestigation." Thus begins the chapter trum of such light is absolutely conchemical power. Now the prism of a itself—a machine that will send into But if we look at sunlight or moonight or moon-light (reflected awayles).

Spectroscope spreads out the light in a band according to the rapidity of the trusting wife who recognized her huslight or moonlight (reflected sunlight), vibrations, first the red, then through band's handwriting in the telegram we shall find a spectrum continuous in yellow, green, etc., to violet. The visithe main, but crossed by numerous ble spectrum is contained between dark lines, as if some of the 'pickets' these two limits. There is also a dark had been knocked off, leaving gaps." spectrum at either end, heat before we at the receiving end of a wire exactly scope. We see it stated that such a lines in the solar spectrum that our shown to have a hydrogen lines in the solar spectrum that our leaving the violet. The former may be present knowledge concerning the detected by means of a thermopile.

tographic plate. When a photograph of the solar spec-(1.) A continuous spectrum is given the photographic band is continued, dark lines just like the other portion. (2.) The spectrum of a gaseous ele- I have said that these spectroscopic

from a glowing gas gave one or more images of the slit in certain portions of the spectrum, and these lines were alby waves. The kind of light mani.

other, and the Sender's Handwriting is

WRITING BY WIRE.

That crude but useful apparatus, the

Briefly speaing, according to the Chicago Tribune report, the telautograph is an instrument which enables a person sitting at one end of a wire to write a letter that a second instrument little organ and fertile cause of disease, arms and his only instruments, said on the plate. Beyond the violet end at the other end of the wire will prothe "vermiform appendix" and also Prof. Virchow in a recent lecture at duce smultaneously in fac-simile. It brings to mind some of the most resent Moscow; we are convinced that a long by every incandescent solid or liquid, and this "ultra violet" spectrum is seen may supplant neither the telephone or wrinkles in surgerey. The operation um, iron and magnesium. The spectory incandescent sond or liquid, and this "ultra violet" spectrum is seen the telegraph, but experts say it will for appendicitis is one of the most difficult of the telegraph in the telegraph or by incandescent gases under high in the photograph to be crossed with the telegraph. apparatus. The length of wire is a was has a deep interest for the general mediately replaced by that of metals. ment under low pressure is discontin- lines are fixed in position. And so matter of no consequence. Whether public, because it consists of the re- These are the data which now make ment under low pressure is discontinines are fixed in position. And so uous, made up of characteristic bright they are so long as the source of light the line extends across a building or moval from the human body of an orunder examination is at a fixed dis- across a continent it is expected to be gan that is a mystery to the medical by civilized nations since the founda-

supported on a vertical shaft. Under danger.

the body. It is as if a chemist were trying to analyze the liquid in a glass jar from across the room with a pair of opera glasses. Here is where the spectroscope steps in, takes the place of the eyepiece and analyzes the light which comes from the distant body under exshine by its own light, or may reflect to seed the body. It is as if a chemist were trying to analyze the liquid in a glass compound, such as common salt, be burned in the flame of the spirit lamp. Compound, such as common salt, be burned in the flame of the spirit lamp. The bright, yellow lines of sodium are instantly seen in a dark spectrum. As soon as the screen is removed the continuous spectrum of the lime light is seen, crossed by two dark lines, exshine by its own light, or may reflect to analyze the liquid in a glass of the spirit lamp. The bright, yellow lines of sodium are instantly seen in a dark spectrum. As soon as the screen is removed the continuous spectrum of the lime light is seen, crossed by two dark lines, exshine by its own light, or may reflect to analyze the liquid in a glass of the spirit lamp. The bright seem in the flame of the spirit lamp. The body is moving in a line of sight, that electrical impulse received will allow the escapement wheel to feed for the sector ward or backward one step. The escape wheels are mounted on vertical shafts which carry drums of the two disregard of the worldly position of their profession range above that electrical impulse received will allow the escapement wheel to feed for ward or backward one step. The escape wheels are mounted on vertical shafts which carry drums of the trying to analyze the liquid in a glass. Nanicephalic heads, (dwarf), as I call them, have none of the worldly position of their profession range above that electrical impulse received will allow the escapement wheel to feed for ward or backward one step. The escape wheels are mounted on vertical shafts which carry drums of the trying that electrical impulse received will allow the escapement wheel to feed for the sam shine by its own light, or may reflect actly where the bright sodium lines double, the two spectra being no longer these drums are attached, by means of fession refuse advice on the ground that these drums are attached, by means of fession refuse advice on the ground that these drums are attached, by means of fession refuse advice on the ground that these drums are attached, by means of fession refuse advice on the ground that the single traveler who has penetrative. that of the sun. A number of elements known to exist on the earth may be present in this distant body in a state. In the solar spectrum are found that the sun and the dark lines show bright again.

The single traveler who has penetrated double, the two spectra being no longer cords on the principle of what is known in mechanics as the "bow-drill" two would be ruined if the fact were to be habited by them, the bold Russian, and the dark lines show bright again.

The single traveler who has penetrated on the ground that upon in mechanics as the "bow-drill" two would be ruined if the fact were to be almost an almost an adversion to the ground that upon in mechanics as the "bow-drill" two would be ruined if the fact were to be almost an almost an adversion to the ground that upon in mechanics as the "bow-drill" two would be ruined if the fact were to be almost an adversion to the ground that upon in mechanics as the "bow-drill" two would be ruined if the fact were to be almost an adversion to the ground that upon in mechanics as the "bow-drill" two would be ruined if the fact were to be almost an adversion to the ground that upon in mechanics as the "bow-drill" two would be ruined if the fact were to be almost an adversion to the ground that upon in mechanics are attached, by means of the dark lines adversion to the ground that upon in mechanics as the "bow-drill" two would be ruined if the fact were to be almost an adversion to the ground that upon in mechanics as the "bow-drill" two would be ruined if the fact were to be almost an adversion to the ground that upon in mechanics as the "bow-drill" two would be ruined if the fact were to be almost an adversion to the ground that upon in mechanics as the "bow-drill" two would be ruined if the fact were to be almost an adversion to the ground that upon in mechanics as the "bow drill" two would be ruined if the fact were to be almost an adversion to the ground that upon the proposition to the ground that upon the ground that the ground that the ground that the ground t present in this distant body in a state of incandescence, or the body may be many thousands of these dark lines, cessive photographs alternately double incompanies and administration of the second arms are hinged together at the writing region of the second and the second arms are hinged together at the writing region.

Used in Millions of Homes-40 Years the Standard.

electricity and has received many degrees from American colleges, and the coration of the legion of honor from the French government.

MARVELS OF SURGERY. OCULISTS WHO EARN \$200,000 putting three drops in the eye.

EVERY YEAR.

Takes the Place of the Cæsarian Method Miracles with the Knife.

pendicitis calls attention to that curious bone constituted the material of his profession. This organ, the vermiform tion of the congress. But further stud-A transmitter and a receiver of the appendix, is about the only thing in les respecting the origin and the regions cil that a man borrows and does not re- it is apt to catch cherry pits, seeds of barrier separating man from the anfine silk cord is attached. These cords and it is so situated in the body that the world nor a man produce a monk-By studying the direction and run at right angles to each other. Each the operation is attended with much ey. All men having a simian appearglass, which is a lens for gathering the In this way it has been found that amount of this shifting of the lines the

the drum and attached to the same. A new thing in the surgical world is ago that there existed a few human shaft is a toothed wheel of steel, the a curious brass button recently design- races which still remained in the primthe focus in order to magnify this im- etc. Even the constitution of the dis- rate. In this manner Professor Keeler, when either cord winds on or off of its ing together two ends of an intestine zation. But all these races have been much greater distinctness than is pos- of this wonderful instrument, and we to measure movements of stars and drum a number of teeth will pass a that has been cut. The button consists objects of minute investigation and we know that in the atmosphere surround-nebulæ to and from this solar system, given point corresponding to the length of two parts, into which an end of the know that they have an organization When examining a planet, for e ple, we use different eyepieces (which present iron, calcium, bismuth and much as a mile a second. This degree ple, we use different eyepieces (which are really microscopes of varying poware really microsc pass any certain point. Each one of testine grows together, an opening re- types. Some races have the same skulls more light than a small one, consequently the image formed by the large lens is brighter, and will stand a great—the truth of the third law of the spec.

surrounded by an atmosphere which contains some or all of these elements in a gaseous state. The spectroscopic ments. Many elements known to us attachment of a telescope decides all actions of these dark lines, cessive photographs alternately double and single at regular intervals, we should at once conclude that the light the message received is an exact reproduct of the message receive pears when the pressure is removed. ology of the Oranfi-Cekai, from which The eye is sprung into a slot on the I have recently received a skull and a concave side of the needle near its few locks of hair. The stock is really a point. It is the invention of a promiblack race, with curly hair, the brachy

men applied for patents and Bell's application was granted. Professor Gray pair of wire shields to be worn like a Constitution, Small Bile Be

as made many new applications of pair of spectacles and to be kept on until all danger of injury is over. Oculists have recently been trying a

new angesthetic made from the leaves of the small leafed cocoa of Java. It is closely related to atro pine and with it it is said that irredectomy can be performed painlessly two minutes after

IT REMAINS A PHANTOM

tomy, a New Operation That Professor Virchow Holds That the Missing Link is far from Discovery.

We know that man existed in the quarternary epoch, that he lived through long ages miserable and de-The illness of Mr. Mackay from ap- pressed, while stone, wood, horn and

Another recent discovery in surgery certain isolated individuals among