

OFFICIAL DIRECTORY

National Government.

EXECUTIVE
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Vice President..... James S. Sherman

JUDICIARY

U. S. SUPREME COURT JUSTICES
(Chief Justice Fuller)

First circuit..... Oliver W. Holmes
Second circuit..... Rufus W. Peckham
Third circuit..... Henry W. Brown
Fourth circuit..... Melville W. Fuller
Fifth circuit..... Edward W. White
Sixth circuit..... John M. Harlan
Seventh circuit..... William R. Day
Eighth circuit..... David J. Brewer
Ninth circuit..... Joseph McKenna

NINTH JUDICIAL CIRCUIT

(Pacific States and Territories)
Circuit Judge..... William W. Morrow
Circuit Judge..... Eskire M. Ross
Circuit Judge..... William B. Gilbert
U. S. Commissioner for Amador county..... Richard Webb

LEGISLATIVE

SENATORS FROM CALIFORNIA
George C. Perkins and Frank P. Flint
CONGRESSMEN FROM CALIFORNIA

First district..... Wm. Englebright
Second district..... Duncan E. McKinlay
Third district..... Joseph K. Knowland
Fourth district..... Julius Kahn
Fifth district..... E. A. Hayes
Sixth district..... James C. Needham
Seventh district..... James McLachlan
Eighth district..... S. C. Smith

State Government.

EXECUTIVE

Governor..... James N. Gillett
Lieut.-Governor..... Warren R. Porter
Secretary of State..... Charles F. Curry
Controller..... A. B. Nye
Treasurer..... Wm. R. Williams
Attorney-General..... Ulysses S. Webb
Surveyor-General..... Wm. S. Kingsbury
Supt. State Printing..... W. W. Shannon
Clerk Supreme Court..... F. L. Caughey

JUDICIARY

SUPREME COURT
Chief Justice..... Wm. H. Beatty
Associate Justice..... T. B. McFarland
Associate Justice..... F. W. Henshaw
Associate Justice..... W. G. Lorigan
Associate Justice..... F. M. Angellotti
Associate Justice..... Lucian Shaw
Associate Justice..... M. C. Sloss

APPELLATE JUSTICES

First district..... James A. Cooper
First district..... Samuel P. Hall
First district..... Frank H. Kerrigan
Second district..... Matthew T. Allen
Second district..... James W. Taggart
Second district..... Victor E. Shaw
Third district..... Norton P. Chipman
Third district..... Albert G. Burnett
Third district..... Elijah C. Hart

BOARD OF EQUALIZATION

First district..... Joseph H. Scott
Second district..... Alex Brown
Third district..... Richard E. Collins
Fourth district..... Jeff D. McElvaine

RAILROAD COMMISSION

First district..... Alex C. Urwin
Second district..... Andrew M. Wilson
Third district..... Theodore Summerland

LEGISLATIVE

Senator, 10th district..... A. Caminetti
Assemblyman, 11th dist..... G. F. Snyder

U. S. LAND OFFICE

[Sacramento]
Register..... John F. Armstrong
Receiver..... John C. Ing

County Government.

Superior Judge..... Hon. Fred W. Wood
Sheriff & Tax Collector..... U S Gregory
Deputy..... W. T. Connors
District Attorney..... C. P. Vicini
Clerk and Auditor..... J. R. Huberty
Deputy..... L. Newman
Recorder..... Thos. M. Ryan
Deputy..... L. G. Meehan
Treasurer..... George A. Gritton
Assessor..... C. E. Jarvis
Deputy..... George A. Gordon
Survivor..... Wm. Brown
Supt. of Schols..... W. H. Greenhalgh
Supt. Hospital..... F. B. LeMoine
Physician..... E. E. Endicott, M. D.
Corner & Public Admr..... B. E. Potter
Court Commissioner..... Geo A Gordon

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Township 2..... B. H. Bagley, Ione
Township 3..... A. A. Grillo, Volcano
Township 4D. A. Fraser Sutter Creek
Township 5..... L. Burke, Plymouth
[Chairman]

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Township No. 2..... T. H. Gartlin
Township No. 3..... A. W. Robinson
Township No. 4..... W. L. Rose
Township No. 5..... John Blower

CONSTABLES

Township No. 1..... A. Laverone
Township No. 2..... J. E. Kelley
Township No. 3..... T. C. McKenney
Township No. 4..... T. S. Tuttle
Township No. 5..... N. E. Wheeler

SCIENTIFIC MISCELLANY

Reported weekly for the Ledger.

A Dynamo That Speaks.—Electric Power from the Wind.—Building Up Boys' Faces.—The Comet That Struck the Earth.—The Eye Magnet.—An Earthquake Recorder for Automobiles.—The Latest Word on Snake Poisons.—Annual Strata in Geology.

In the novel telephonic experiments of Prof. W. Peukert, of Brunswick, Germany, magnets, alternating-current transformers and even dynamos have been made to talk, without the use of vibrating plates or membranes. A core of soft iron enclosed in a coil in a microphone circuit was at the same time surrounded by a second coil of wire traversed by direct current, and was thus kept constantly magnetized while subjected to the feeble variations of the microphone circuit. Words spoken into the microphone were reproduced by the magnetized iron so loudly as to be heard several yards. Trying the dynamo, the field magnets were excited, by a special continuous current, and the microphone circuit was applied to the brushes. Both speech and song delivered before the microphone were reproduced by the dynamo so clearly as to be distinctly heard in a good-sized hall.

If the wind blowing over London to a height of 500 feet could be harnessed, Sidney Ransom estimated, it would do work equivalent to that of a steam engine of half a million horse-power, working day and night. Wind turbines can be used for many purposes, are simple to erect, and do not usually require towers more than 50 feet high. In Germany a wind-power electric generating equipment has been brought out. No attention is needed except to reduce the sail area of the wind wheel in storms, a storage battery stores the excess current from the dynamo until needed, and a special regulator automatically keeps at constant pressure the current supplied for house-lighting or driving small farm or other machines.

Besides a striking improvement in stature and health, boys taken from London streets for the British navy have shown a remarkable change in the shape and expression of the face. Dr. Robbins curiously attributes this development to growth of the lower jaw brought about by the chewing made necessary by the "salt junk" and other navy rations.

The theory that a large comet collided with the earth just 890 years ago appears to Prof. W. H. Pickering as quite plausible. Geologists have reached the conclusion that the now famous crater near Coon Butte, Arizona, is the scar left by a great fall of meteoric matter, and the fact that seven of the ten largest known meteorites have been found within 900 miles of this place suggests that all have been scattered fragments from the same fall. They are similar masses of iron and nickel weighing from three to twenty tons each. Geological evidence at Coon Butte indicated that the collision occurred less than 5,000 years ago, and stunted cedars growing in the crater show by their annual rings that the time must have been at least 700 years ago. Annals of Cairo, Egypt, seem to place the date in August, 1029. The record mentions a great meteoric shower, such as might be witnessed over the earth on collision with a comet, and there was not only a brilliant light but a great noise, in contrast with the stillness of other meteoric showers that have been known.

The type of powerful electromagnet that is being used in many English hospitals for removing iron and steel particles from the eye has a core of the best Swedish soft iron, three feet long and six inches in diameter, which is wound with 200 pounds of insulated wire in two coils. The threaded end of the magnet is adapted to receive terminals for shapes varied to suit special cases. Mounted on ball bearings, the magnet can be moved easily in any direction; and a special form—for reclining patients—is geared so as to be tilted by a hand crank. A rheostat varies the strength of the magnet, which at the maximum, exerts a pull of 30 pounds per square inch at a distance of one inch.

A seismograph registering the jolts of a motor vehicle was a novel exhibit by Hon R. C. Parsons at a late soiree of the London Royal Society. The apparatus consists of a weight carried by the horizontal arm of a bell crank lever, the other arm of which is connected to a link holding a pencil against a paper-covered revolving drum. Jolts displace vertically the point of suspension of the bell crank lever, giving an angu-

lar movement that is recorded by a horizontal motion of the pencil on the paper of the drum. The record gives an indication of the movements of the car-body by obstacles or depressions in the road.

Two classes of snake poisons are recognized by Dr. Calmette, Director of the Pasteur Institute at Lille. The venoms of the cobra, bungarus and other serpents of the East have a powerful action upon the nervous system, but the poisons of such snakes as the cerastes, rattlesnake and adder have more strictly localized effects. An old error is the idea that the poison is only fatal, when it is taken into the veins. When taken into the stomach in sufficient doses, its action is very powerful, and sucking poison from a bite is not without serious danger. Another common mistake is the belief that snakes are immune to the poison of other snakes. Dr. Calmette's experiments have shown that rattlesnake poison will kill cobras, and that it is only bites from their own species that snakes can bear without injury. If injected promptly, certain chemicals—such as permanganate of potassium, chloride of gold, chloride of lime and chromic acid—have considerable value as antidotes. The only really effective remedy, however, has proven to be a serum produced by successive inoculations of rabbits, guinea pigs, or preferably, horses, and the efficiency of this is almost certain if used within two hours after the bite.

A new geological time indicator has been brought to notice by Baron G. de Geer, of Stockholm. Deposits of laminated clay have been found in lowlands bordering the Baltic, and it is supposed that the alternating bands of dark and light have had an origin comparable to that of the rings of trees, which they resemble.

Words of Praise

For the several ingredients of which Dr. Pierce's medicines are composed, as given by leaders in all the several schools of medicine, should have far more weight than any amount of non-professional testimonials. Dr. Pierce's Favorite Prescription has the badge of honesty on every bottle-wrapper, in a full list of all its ingredients printed in plain English.

If you are an invalid woman and suffer from frequent headache, backache, gnawing distress in stomach, periodical pains, disordered, catarrhal, pelvic drain, dragging down distress in lower abdomen or pelvis, perhaps dark spots or specks dancing before the eyes, faint spells and kindred symptoms caused by female weakness, or other derangement of the feminine organs, you can not do better than take Dr. Pierce's Favorite Prescription.

The hospital, surgeon's knife and operating table may be avoided by the timely use of "Favorite Prescription" in such cases. Thereby the obnoxious examinations and local treatments of the family physician can be avoided and a thorough course of successful treatment carried out in the privacy of the home. "Favorite Prescription" is composed of the very best native medicinal roots known to medical science for the cure of woman's peculiar ailments, contains no alcohol and no harmful or habit-forming drugs.

Do not expect too much from "Favorite Prescription;" it will not perform miracles; it will not dissolve or cure tumors. No medicine will. It will do as much to establish vigorous health in most weaknesses and ailments peculiarly incident to women as any medicine can. It must be given a fair chance by perseverance in its use for a reasonable length of time.

You can't afford to accept a second-norm as a substitute for this remedy of known composition. Sick women are invited to consult Dr. Pierce, by letter, free. All correspondence is guarded as sacredly secret and womanly confidences are protected by professional privacy. Address Dr. R. V. Pierce, Buffalo, N. Y.

Dr. Pierce's Pleasant Pellets the best laxative and regulator of the bowels. They invigorate stomach, liver and bowels. One a laxative; two or three a cathartic. Easy to take as candy.

Constipation causes headache, nausea, dizziness, languor, heart palpitation. Drastic physics gripe, sicken, weaken the bowels and don't cure. Doan's Regulets act gently and cure constipation. 25 cents. Ask your druggist.

Nest Eggs. Take a nice fresh egg and separate the white and the yolk so that the yolk will not be broken. Put the white into a bowl, add a pinch of salt and beat it until it is very stiff. Have ready some little bowl that is pretty enough to put on the table, but that will not break in the oven. Pour into this the stiff beaten white and make a little hole in the middle of it with a spoon. In this little hollow place the yolk, still unbroken. Set the dish in a hot oven and cook for three or four minutes, or until the white has browned a little and the yolk is firm. There must be a separate dish for each egg that you cook in this way. Serve right away.—Delineator.

The Echo. A little boy was amusing himself by hallooing, then listening for the echo. "What is the echo, mamma?" he asked. His mother attempted to explain, feeling all the while how inadequate her explanation was. The little fellow trotted along at her side, silent for some minutes. Then his eyes fell upon his shadow. "Oh, I know what echo is," he exclaimed joyfully. "It's the shadow of our voices."—Los Angeles Times.

Phears' Express. Ring up Sam Phear for prompt delivery of trunks, baggage and express packages. Rates reasonable. Leave orders with P. L. Cassinelli, phone Main 35; and Express office, Main 34; residence Black 374.

NOTICE. I hereby caution all persons not to trust my wife, Jessie C. Perryman, on my account, as I will not be responsible for any debts she may contract after this date. John Perryman Dated Amador City, July 12, 1909, jy16-4t.

Absolutely the lightest-running lock stitch Sewing Machine
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The latest result of fifty years' experience in making Sewing machines for family use.
Machines sold on easy terms.
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