

OFFICIAL DIRECTORY

National Government.

EXECUTIVE

President..... Theodore Roosevelt
Vice President..... Charles W. Fairbanks

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

CONGRESSMAN 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

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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. Alfen
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. Twrin
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..... Will A. Newcum

County Government.

Superior Judge..... Hon. R. C. Rust
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..... D. A. Patterson
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 Adm..... H. E. Potter
Court Commissioner..... Geo A Gordon

BOARD OF SUPERVISORS

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

JUSTICES OF THE PEACE

Township No. 1..... A. Goldner
Township No. 2..... T. H. Gartlin
Township No. 3..... A. W. Robinson
Township No. 4..... W. L. Rose
Township No. 5..... John Blower

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

SCIENTIFIC MISCELLANY

Reported weekly for the Ledger.

Waterfall Compression of Air.—Puzzles of the Brain.—Fires from Ledges.—Diving Limitations.—Dish-Washing Science.—Our Astronomers.—Perfume Intoxication.—Vases of Quartz.—Decoloration of Charcoal.

The system of compressing air by falling water, as installed in several places in the United States and Canada, is claimed to have an efficiency of 75 to 83 per cent. The water flows through a large horizontal pipe to a vertical one, at the upper end of which is the circular loop of an air pipe with a great number of fine holes in its lower side, and as the water drops past the ring innumerable air bubbles are drawn along and compressed. At the bottom the water turns suddenly and comes to rest in a reservoir, into which the air rises under pressure. The compressed air can be drawn off as desired, and when the reservoir is full any excess passes away automatically with the water carried to the surface in an overflow pipe. The difference of a few feet in the level of the inflow and outflow pipes gives a rapid flow of water, while the amount of compression depends entirely on the depth of the hole.

The pineal gland and the pituitary body—neither weighing more than five or six grains—have long perplexed anatomists. The former—behind the middle ventricle of the brain—is now supposed to be the remnant of a third eye of our ancestors, and the rudimentary eye is distinct in some lizards, with the power of sight in two species. The pituitary body, just back of the mouth, has been lately proven to serve some important purpose. Its chief function is not yet clear, however, one authority supposing that it destroys toxins another that it is a general nerve tonic, while M. de Cyon regards both pituitary body and pineal gland as regulators of blood pressure in the brain.

In South Africa, where thunderstorms are terrific, lightning often strikes ironstone beds, and blue flames—sometimes firing buildings—are alleged to play about such outcrops two or three hours after a storm.

The practical limit of deep-sea diving, under the best conditions, is placed by Hill and Greenwood, of the London Hospital, at thirty-five to forty fathoms. A special study of eight years has shown these physiologists that the chief danger to the diver arises from the nitrogen absorbed by the blood and other body fluids, and that it is the absorbed nitrogen that produces the ill effects of rising too quickly. The breathlessness and oppression felt by the working diver are results of poisoning by carbonic acid instead of direct effects of the great pressure. With special air-pumps and extra precautions, the experimenters descended thirty-five fathoms in a Scotch loch, and, rising very slowly, were none the worse for the experience, but the oxygen required for regular working at such depth is so great in amount that pneumonia and convulsions are commonly produced.

Even the prosaic washing of dishes has been a subject of scientific investigation. In the interests of the microbe-fearing mortal, Christiansi and Michelis, Swiss bacteriologists, have tested the effect on germs present of different methods of washing, such as (1) simply wiping glasses with a sterilized cloth, (2) rinsing with cold water and wiping with no particular care, and (3) thoroughly washing and rinsing in fresh water and carefully drying. They find that the partial washing or wiping so common in hotel, restaurant and family kitchens leaves the germs practically untouched. Thorough washing, even in cold or lukewarm water, with vigorous wiping, may remove practically all bacteria; and safety is the more absolute the nearer the water is to boiling. Dissolving two per cent of carbonate of soda in the water makes sterilization still more thorough.

A new directory by the Royal Observatory of Belgium shows that there are 1556 astronomers and somewhat over 550 observatories in the world. Of the observatories, more than 100 are in the British Isles, with nearly as many in the United States, the number in other countries being much smaller.

Little attention has been paid to the physiological effects of odors, and a German physician enters a new field in his work confirming a popular belief that strong perfumes have an intoxicating and numbing action. His experiments were made by placing frogs under glass bells with sponges saturated with the essences.

As in chloroform poisoning, a brief excitement is followed by partial or complete paralysis, and the many odors tried seemed to differ only in rapidity of action. Musk was one of the slowest. Camphor, peppermint, lavender and cloves were slow, while aldehyde, turpentine, elder flower, ylang-ylang, assafoetida, carbon disulphide, mustard and nicotine were rapid and energetic. Instantaneous action was noted in some cases. Jumping about a moment or two in a lively way, the frog would very soon stop, close his eyes and rub his nose, while breathing and heart action became slow and he freely perspired. Continued a little longer, the odor caused convulsive breathing, rolling of the eyes, and gradual stoppage of the heart.

A novel French electric furnace is in the form of a mold, and is designed for making vases or other vessels of pure silica. Within the furnace is placed a strip of carbon-pierced with air-holes that can be made white-hot by a strong electric current. The furnace is filled with sand, and by gradually heating the carbon a layer of the grains is melted around it, and when sufficiently thick is freed from the loose sand. Further heating completely vitrifies the molten layer, which is blown out by an air current against the side of the furnace or mold. The objects, which are made grayish by innumerable air bubbles have great resistance to sudden changes of temperature.

Why animal charcoal removes the color from colored liquids while wood charcoal has no effect has not been understood. A European chemist now finds that the action of the former is due to the presence of 5 to 7 per cent of nitrogen.

The Story of a Medicine.

Its name—"Golden Medical Discovery" was suggested by one of its most important and valuable ingredients—Golden Seal root.

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Land and Mineral Decisions.

(Reported by Woodford D. Harlan, Land Attorney, Washington, D. C.)

Coal Land.—A second fling for some tract is not allowed to one who has failed to make proof and payment within the statutory period.

Contest, Practice.—If an entryman fails to maintain his residence, during the pendency of a contest, involving priority of settlement, his laches cannot be cured by the resumption of residence prior to the institution of proceedings by the adverse settler charging said default.

Entry, Legality of same, practice.—Legality of an entry will be considered by the department when before it for action, though the character of the entry when made was known to the general land office.

Final Proof.—When new final proof is submitted pending appeal from the commissioner's rejection of the first, the department will pass on the merits of the case as shown by the whole record.

Homestead.—Cannot be made of land occupied in good faith by others. Mineral, agricultural, practice.—The burden of proof is upon an agricultural claimant for land returned as mineral, to show the fact of its non-mineral character, but he is not required to prove affirmatively its agricultural character.

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