

OFFICIAL DIRECTORY

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Vice President.....Charles W. Fairbanks

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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

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(Pacific States and Territories)

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Circuit judge.....Eskire M. Ross
Circuit judge.....William B. Gilbert
U. S. Commissioner for Amador county.....Richard Webb

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Eighth district.....S. C. Smith

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JUDICIARY

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Associate Justice.....F. W. Henshaw
Associate Justice.....W. G. Lorigan
Associate Justice.....F. M. Angellotti
Associate Justice.....Lucian Shaw
Associate Justice.....M. C. Sloss

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First district.....Samuel P. Hall
First district.....Frank H. Kerrigan
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Second district.....James W. Taggart
Second district.....Victor E. Shaw
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Third district.....Albert G. Burnett
Third district.....Elijah C. Hart

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[Sacramento]

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District Attorney.....C. P. Vicini
Clerk and Auditor.....J. R. Huberty
Deputy.....L. Newman
Recorder.....D. A. Patterson
Deputy.....L. G. Meehan
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Township 4D. A. Fraser Sutter Creek
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SCIENTIFIC MISCELLANY

Reported weekly for the Ledger.

The Plant Weather Forecasting.—
Climate Contrasts.—Tapping a Volcano.—Occult Healing.—Hydrophobia Danger.—Rivals of the Diamond.—Electric Heat for Plants.—A Machine Novelty.—Solving the Anarchist Problem.

For a score of years Prof. J. F. Nowack, the Austrian baron, has been studying the connection between sunspots and atmospheric and earthquake phenomena and the constant variations in color and position of the leaves of Atrius precatorius nobilis, the weather plant of Cuba and India. Collections of these plants now being made in London and New York are to begin a system of weather observatories. The system is to be soon extended to San Francisco, Bombay and Tokio, and from the five stations it is expected that the northern hemisphere will be efficiently served with the following weather plant forecasts: 1. Special charts, 24 to 28 days in advance, showing the "critical" barometric centers, with atmospheric and earthquake disturbances and risks of freamp explosion. 2. A daily general chart showing the movements of the critical barometric centers for 28 days ahead. 3. A daily chart showing lines of equal barometric pressure 2 to 7 days in advance. 4. A daily chart showing areas of rainy, fine and foggy weather 2 to 7 days in advance. 5. Daily local details of weather within 60 miles 48 to 72 hours in advance.

The greatest known daily range of temperature is found in Arizona, where a change of 80 degrees in 12 hours frequently occurs, and where the mean annual temperature is 45 degrees in the north and 69 degrees in the south with 120 degrees as a frequent summer maximum. The most equable climate, on the other hand, is claimed by Honolulu. The maximum temperature in 1907 was 89 degrees on September 3, the minimum was 58 degrees on March 13, and the yearly average was 73.82 degrees. The yearly rainfall, 2.84 inches at Yuma and 24.65 inches at Flagstaff in Arizona, has averaged 30.25 inches for 16 years in Honolulu, with a minimum of 16.04 and a maximum of 50.30 inches.

An Italian proposes a tunnel to tap Vesuvius, to avoid possible explosion from an obstructed vent and to supply molten lava for molding into building blocks.

Psychotherapy, or mental healing, is not new. But mind treatment may be of scientific and well-ordered kind, applied with some understanding of its physiological effects and limitations, or it may be the mystic medicine of the savages, the oracles and the religious zealots. In a recent discussion among Pennsylvania medical men, Dr. Chas. K. Mills, pointing out that faith is often essential in medicine as in religion, gave these as the psychotherapeutic methods accepted by the scientific physician: (1) The use of hypnotic procedures; (2) suggestion in the waking state; and (3) education or appeal to reason. Mind stimulation, even in blind and haphazard way, may do much to cure disordered nerves. Mind treatment by clergymen and other nonmedical persons is always to be condemned, because indiscriminate reliance upon this leads to false security, and brings neglect when prompt physical treatment by the trained physician is necessary to save life. Dr. Chas. W. Barr finds that there is rapidly growing up in America an unaccountable superstition, comparable with witchcraft and other delusions of the past. Self-styled healers claim to control some occult force outside of themselves, and from the physician's limited power known as suggestion they make an exaggerated and comforted showing of mysterious results. The chief evil, as in a unintelligent mind treatment, is that medical aid will be too long withheld in critical stages of disease.

Rabies is a far more common disease than is generally admitted, so that Dr. E. C. Schroeder, of the bureau of animal industry, urges constant observation of dogs and their muzzling in public places. Recent progress has greatly lessened its effects, for, since Negri's discovery in 1903 of the distinguishing microorganisms in the nerve-cells, the disease is early recognizable, and the Pasteur treatment is effective in curing it. The mortality of 60 and 80 per cent in untreated bites on hands and head has been reduced to 0.75 and 1.25 per cent.

The diamond, so long the hardest known substance, now has two rivals, the silicide and the boride of titanium—products of Henri Moissan's electric furnace—being claimed to be as hard.

The growth of plants is known to be stimulated by weak electric currents applied to the soil, but it has not been supposed to be economical to use electricity for conversion into heat for warming hot-beds, as has been done by G. Hartman in his experiments at Turbine, Ont. His heater consists of about 260 feet of one-twelfth inch iron wire wound in seven 2 inch coils on 1 1/2 inch iron pipe, the coils, connected in series, being mounted on porcelain knobs on a piece of asbestos board. A frame about six by eight feet in size has a floor, on which is about five inches of soil, and the top of the frame is covered with two ashes. The heater is placed under the floor. Current is taken from a 110 volt circuit, but the energy actually received last year was 15 amperes at 80 volts. This gave sufficient heat. The hotbed was kept quite warm, and tender flowers and vegetables developed rapidly in the early spring weather.

For slow-speed pumps in the Rand mines, South Africa, a novel flywheel has been adopted. High freight rates make iron and steel machinery very costly, and the use of concrete rims from the flywheels of ten pumps is stated to have realized a saving of about \$10,000. The flywheels are driven by electric motors through worm gear about 20 revolutions per minute. Each wheel is 14 feet in diameter, with cast-iron bosses in which sixteen spokes of four-inch tube are screwed, and the rim has a base and an outside of 1/4 inch sheet iron strips, separated by distance pieces. The strips are bolted together, the concrete rim between being 13 inches wide and 13 inches deep, strengthened by four 1/4-inch wires interlaced with the distance pieces. The weight of the wheel is 8,000 pounds, and that of the rim 6,000 pounds.

Anarchy is a mark of disease in the view of a Memphis physician. He finds anarchistic ideas conclusive evidence of insanity, and would commit all anarchists as dangerous lunatics, thus making them harmless and giving them opportunity to gain mental balance by education.

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Special Small Ads. Advertisements under this head, not exceeding 5 lines, will be inserted at 50c per month, or 5 cents per line for less than one month.

ALL kinds of Blanks for U. S. Land Filings—Homestead, Timber and Mineral blanks—may be had at the Ledger office; also deeds mortgages, mining locations, proof of labor and other legal blanks kept for sale.

Mining Signals on cloth, required to be posted in all mines, for sale at the Ledger office.

For Sale—Lot of benches, formerly used in Webb hall; 6 and 8 feet long; suitable for show place, churches, etc. Will be sold cheap; apply at Ledger office.

Acknowledgment blanks for notaries, specially printed for Amador county, may be had at the Ledger office. Price 50c per packet of 50.

Copies of the license ordinance of the City of Jackson in pamphlet form may be had at the Ledger office; price 15c. each.

For Sale or Rent.—The Johns house and lot opposite skating rink on Broadway street, Jackson. Inquire of Wm. G. Snyder, Jackson, Cal.

Cheap for cash.—One gentle mare with harness complete, and light spring wagon. Apply at E. S. Pitols, Jackson.

For Rent—Two front rooms in the Webb hall building, suitable for offices. Apply at Ledger office.

Furnished Rooms to let; inquire at Ledger office.

NOT A MILITARY HERO WORSHIPER.

(Original.) When the Spanish-American war came on Milton Forester was a lieutenant in the national guard. He received a captaincy in the volunteers and marched away with his regiment amid the plaudits of the throngs who lined the streets. There was one face at an upper window which absorbed all the young soldier's attention, the face of his fiancée, Mary Mills. The look of pride in him and love for him that beamed in her eyes might have exhilarated another, but Forester was a peculiarly sensitive man—a man to dread a possible failure. He knew there were certain men whose constitutional makeups unfitted them to be soldiers, and no man can tell whether he is one of these till he comes to face shot and shell. He dreaded lest he might prove unworthy. Should he falter under the terrible strain of battle he would never see Mary again.

Forester thought too much of this. It is well for one to realize obligations he has taken upon himself, but he should not permit himself to brood over the matter. Forester worried all the way to Florida, from Florida to Cuba and during the campaign until the final fighting, which was the first time he was under fire.

It was during this contest about Santiago that his regiment was ordered forward in the face of a terrible fire. One's first fight is the most trying of all. It is then that the soldier for the first time hears the ugly stinging sound of bullets, the rattle of machine guns and the screech of shells, to all of which there is the background of incessant roar of cannon. Forester looked a little pale, but pressed resolutely on.

All of a sudden he became conscious of a dizzy, nauseating sensation, his foot struck something—or he thought it did—and he pitched forward. The regiment pushed on. Another line of battle came up and was pressing forward when Forester was awakened, as it were, by the sound of a voice. Nathan Burge, an old and tried friend, had seen him, recognized him and stopped to succor him.

"Nate," said Forester. "I've fallen out of the ranks. I hadn't the physical ability to go on. Write to Mary Mills and tell her that I'll never see her again. She has loved a coward!" "Hi, you, there! Move on!" cried an officer who was marching in rear to drive on stragglers. Without a word Burge hurried forward, leaving his friend to his own regrets.

When the fight was over Burge sought Forester, but not finding him, supposed that he had hidden his shame by desertion. He waited for a time, thinking that the coward might turn up, but he did not. Burge's regiment was ordered to the coast at the close of the war and was one of the first to embark for home. When he reached Montauk Point the first person he met was Mary Mills. She had come as a nurse. She inquired eagerly for her lover.

Burge prevaricated. He could not bear to deliver the message with which he had been charged. But Mary, with a woman's quick eye where love is concerned, saw that he was concealing something and assumed that her fiancé had been killed. Burge would much rather have broken such news to her than that he had turned out a coward. At last he told her the truth. Mary Mills went home bowed down with grief.

The next morning she heard one of her sisters reading from newspaper dispatches from Santiago. She was about to leave the room, dreading lest she should hear that her lover had been ordered before a court martial to be tried for cowardice, when his name was mentioned, but in a different way from what she had expected:

Milton Forester, wounded in the stomach. Operated upon and expected to recover. Promoted to be captain, vice John Kellogg, killed.

Forester after being left by Burge tried to rise. His object was to push forward with a view to getting himself killed. But he found himself too weak to rise. At that moment a surgeon with an ambulance corps came hurrying on, making hasty examinations of the wounded lying on the field. Coming to Forester, he saw blood on his clothing, tore open his coat and said: "A bad wound."

"? Wounded?" "Yes; in the stomach." "Thank God!"

The surgeon looked at him with a puzzled expression, but there was no time for words, and after ordering a rescue party to take him to a hospital pushed on.

When the boys of '01 were shot in the stomach there was nothing left for them but to pass the dark portal. Not so in the Cuban war. By that time such progress had been made in surgery that Forester's stomach was laid bare, the wound sewed up, the stomach put back in place, and in time the patient was as well as ever. As soon as it was safe he was put on a transport and sent north. When as a convalescent he walked slowly down the gangway to the dock his friend Burge and his fiancée, Mary Mills, were there to meet him.

"What did you mean," said the former, "by putting up a job on me like that?"

"Well, I'll tell you, Nate. I once asked my father, who commanded a battery in the civil war, how he felt on going into a fight. He said it made him sick at his stomach. I felt sick, and I didn't know I'd been struck."

Mrs. Mary Mills Forester, now a matron of thirty-two, says she believes there is a good deal of humbug about "the fearless heroes of war."

MERRICK AUGER.

ESTABLISHED 1855.

THE AMADOR LEDGER

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Table with 2 columns: Club Name and Rate. Ledger and Daily Call, one year \$ 9 00; Ledger and Weekly Chicago In-ter-Ocean 3 20; Ledger and Weekly Call one year 3 20; Ledger and Daily Chronicle, one year 9 00; Ledger and Weekly Chronicle, one year 3 00; Ledger and Daily Examiner 1 year 9 00; Ledger and Weekly Chicago In-ter-Ocean 2 75; Ledger and Cosmopolitan Magazine one year 2 75; Ledger and McCall's Magazine, 1 year, including free pattern 2 50; Ledger and Pandex of the Press 2 75; Ledger and Pictorial Review 2 50.

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