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

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Eighth district... S. C. Smith

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Associate Justice... F. W. Henshaw
Associate Justice... W. G. Lorigan
Associate Justice... F. M. Angellotti
Associate Justice... Lucian Shaw
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Second district... Matthew T. Alfen
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
Treasurer... George A. Gritton
Assessor... C. E. Jarvis
Deputy... George A. Gordon
Survivor... Wm. Brown
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SCIENTIFIC MISCELLANY

Reported weekly for the Ledger.

Pictures of the Lungs in Action.—A Dethroned King of Medicines.—Novel Pulverization.—Nations Overthrown by Malaria—A Dark Nebula.—Dustless Road Crust.—Vanishing Metals—Ocean Waves from Air Pressure.

Living pictures have been utilized for various demonstrations in medicine, one investigator having made biograph illustrations of different gaits, while another has recorded various complete details of surgical processes, and a third has reproduced the convulsions of epileptics. The latest feat is that of Dr. Kohler, of Wisbaden, who has shown in X-ray photographs the movements of both normal and diseased lungs. The pictures were obtained by prolonged exposure of twenty seconds, several X-ray impressions being combined, and about sixty pictures were taken for each respiration, each of 20 or 22 phases of inspiration and expiration being projected two or three times successively. Some details brought out have never before been observed.

Gold formerly held a leading place among medicines, but even the much-wanted chloride of gold cure for alcoholism seems to be now regarded as without therapeutic effect by most medical men. Dr. A. Maudet, however, records that salt of gold is still used in the regular practice of a few French physicians. Chronic rheumatism is treated by Prof. Grasset with chloride of gold and sodium, which in dilute solution is injected by Dr. Bue into tuberculous tumors; for epilepsy Prof. Lemoine gives bromide of gold, the remedy of Prof. Robin for cancer; and a hypodermic injection of chloride of gold solution is Dr. Calmette's cure for viper bite.

By a new French process, milk powder is produced by forcing the liquid under high pressure through a tube only 1-250 inch in diameter into a closed chamber heated to 167 degrees F. by a current of warm air. The milk expands to vapor, the air current carries off the water, and the solids fall in powder. That malaria, as well as political causes, played an important part in the decadence of Greece and Rome is the view brought out in a new work by W. H. S. Jones, of Cambridge, Eng., and supported by Major Koss and Dr. G. G. Elliot. In the fourth century B. C. a great change in the morality and character of the Greeks was coincident with a change of the country from a healthy to a malarious one. Physical vigor and intellectual power were greatly diminished before 300 B. C., while discontent and complaint became general, and in seeking a cause it is found that malaria has produced marked degeneration of race in modern times. The effect in Rome was somewhat different, brutal bloodthirstiness being a characteristic instead of moroseness and mental apathy. The writings of Hippocrates give a clear account of disease among the Greeks, but evidence is lacking to show the influence of health upon the political condition of the Egyptians and other early races.

A "dead nebula" is one of the most singular of strange objects noted in the sky. It appears in a recent photograph by Prof. E. E. Barnard, and is a long, straggling mass in the constellation laurus, evidently hiding stars behind it. The numerous stars around it suggest that the few within its limits must be on this side of it. A small luminous portion, gradually fading out, is shown, but it appears that the nebula must be a large one, and that most of it is dead or non-luminous, being in some places darker than starless parts of the sky.

Apokonin, the dust-preventing compound described by Consul Norton at Chemnitz, and used to some extent on the macadamized streets of Leipsic, is a mixture of heavy residual oils from the distillation of coal-tar with high-boiling hydrocarbons. After heating in iron kettles, it is sprayed with a special sprinkler that forces the liquid into the dust under high pressure, and the result is a compact black coating over the roadway.

A redistribution of the chemical elements—especially of the metals—has been going on through the agency of man for some thousands of years, and H. M. Atkinson, a British chemist, points out that the total effect must be considerable. The gold and other metals concentrated in small spots near the surface of the older rocks are being rapidly mined and put to use, the fine particles from their wear being carried down streams and eventually diffused through the deposits at the mouths of the rivers.

Lin oxide, for example, is mined at a few places, spread out pretty uniformly over the earth, and in the refuse of towns the waste tin is oxidized, carried away by water, and on the sea-bottom the fine particles are so scattered as to be beyond future recovery by any process known. The effect may be modified to some extent by the concentration of metals in solution and other causes. As the common receptacle of all waste, the sea must be slowly changing its composition from industrial processes—notably from soluble chlorides and other factory waste and from the salts of potash and lime that are taken from mines and used on the soil by farmers.

"Marine seiches," or "vibrations of the sea," are pulsations usually having periods of fifteen to twenty minutes, though varying in different localities, and they occur on coasts in addition to the waves of short duration due to wind and those caused by the regular ebb and flow of the tide. They have brought out various theories. A recent study has been made by Prof. Giovanni Platania at Catania, Sicily, and he concludes that the principal cause is air waves or variations of atmospheric pressure.

Domestication of the elephant seems to be making good progress on the Congo. Of the twenty-five young elephants at Api, nineteen are kept at work eight months of the year, and turned out in the forest during the rainy season, but do not join the wild elephants. They return to work willingly.

DOCTORS MISTAKES

Are said often to be buried six feet under ground. But many times women call on their family physicians, suffering as they imagine, one from dyspepsia, another from heart disease, another from liver or kidney disease, another from nervous prostration, another with pain here and there, and in this way they present alike to themselves and their easy-going or over-busy doctor, separate diseases, for which he, assuming them to be such, prescribes his pills and potions. In reality, they are all only symptoms caused by some uterine disease. The physician, ignorant of the cause of suffering, keeps up the treatment until large bills are made. The suffering patient gets no better. The cause of the wrong treatment, but probably worse, a proper medicine like Dr. Pierce's Favorite Prescription, directed to the cause would have entirely removed the disease, thereby dispelling all those distressing symptoms, and instituting comfort instead of prolonged misery. It has been well said, that "a disease never is half cured."

Dr. Pierce's Favorite Prescription is a scientific medicine, carefully devised by an experienced and skillful physician, and adapted to woman's delicate system. It is made of native American medicinal roots and is perfectly harmless in its effects in any condition of the female system. As a powerful invigorating tonic "Favorite Prescription" imparts strength to the whole system and to the organs distinctly feminine in particular. For overworked, "worn-out," run-down," debilitated teachers, milliners, dressmakers, seamstresses, "shop-girls," house-keepers, nursing mothers, and feeble women generally, Dr. Pierce's Favorite Prescription is the greatest earthly boon, being unequalled as an appetizing cordial and restorative tonic. As a soothing and strengthening nerve "Favorite Prescription" is unequalled and is invaluable in allaying and subduing nervous excitability, irritability, nervous exhaustion, nervous prostration, neuralgia, hysteria, spasms, St. Vitus's dance, and other distressing, nervous symptoms commonly attendant upon functional and organic disease of the uterus. It induces refreshing sleep and relieves mental anxiety and despondency. Dr. Pierce's Pleasant Pellets invigorate the stomach, liver and bowels. One to three a dose. Easy to take as candy.

The biological laboratory of the department of agriculture is preparing to hurl a bombshell into the American home. The long tail rat has to go because he is responsible for the spread of the bubonic plague and now the mark of condemnation is placed upon poor tabby. The biological scientists say that the cat is the greatest carrier of disease; that it is responsible for the spread of tuberculosis, scarlet fever, small pox and diphtheria, especially among children.

"I suffered habitually from constipation. Doan's Regulets relieved and strengthened the bowels, so that they have been regular ever since"—A. E. Davis, grocer, Sulphur Springs, Texas.

WHAT HIAWATHA PROBABLY DID.

He slew the noble Mudjekeewis, With his shin he made him mittens; Made them with the fur-side inside Made them with the skin side outside; He, to keep the warm inside, Put the cold side, skin side, outside; Put the warm side, fur-side, inside That's why he put the cold side outside, Why he put the warm side inside, Why he turned them inside outside. —Ex.

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