

## Measuring Wind by Music.

Carl Barus has recently shown w the velocity of the wind can be reckoned by noting the musical pitch the sound given out when wind ows across a stretched wire. The incipal elements on which the calcu-Intion is based are the dlameter of the wire and the temperature of the The length of the wire is immaterial, so long as it is not changed. variation in the wind's velocity faithful represented by the rising or ling of the pitch of the note sung by the wire.

Giant Plants on Mountains,

Recent explorers of the Caucasus Mountains have reported the existence here of a peculiar race of gigantic erbaceous plants growing at a height nearly 6,000 feet above sea-level. lants belonging to the same botanic amilies, but growing at the bottom of the valleys below, do not attain an axtraordinary size. For instance, a pecies of campanula-our ordinary arebell is a campanula-grows only wo feet high in the valleys, but on he mountains it reaches a height of lx feet, and its stem becomes thick nd rigid, like that of a small tree.

## Armies on Ice.

Army engineers in various countries ave calculated the thickness of ice ecessary to sustain certain weights. ce two inches thick is deemed strong nough to bear a man's weight, acording to a summary of the army ules on this subject published in "Enincering Mechanics," and on such ice nfantry may march if the distance beween each man is properly spaced. Cavalry and light field guns can cross ce four inches thick. Six-inch ice vill sustain heavy field guns; eightnch ice artillery batteries with horses; and ten-inch ice "an army or an innu-merable multitude." On fifteen-inch ce railroads have been laid and operated for months at a time.

The Finoroscope. Mr. Thomas A. Edison has invented n apparatus, called the fluoroscope, by the aid of which a surgeon, intead of photographing with the X ays the bones or other hard substances concealed under the skin and flesh of patient, may actually see them. The machine depends for its action apon the fact that the X rays possess the property of rendering luminous certain substances, which chemists call uorescent, Mr. Edison first determined, by experiment, that the best uorescent substance for this purpose as calcium tungstate. The tungstate s spread in a smooth layer upon a piece of pasteboard which forms the bottom of a small box, having holes for the eyes at the upper end. A Crookes tube, enclosed in another box, s excited by a current of electricity, nd if the hand, for instance, is to be xamined, it is placed upon the box containing the tube. The observer then ooks into the viewing box, whose tungstate-covered bottom is placed di-

## MONEY IN OSTRICHES.

## An Experiment to Be Made in Florida to Raise These Birds.

"It occurred to me many years ago," said Mr. H. J. Tiffin, "that if ostrich farming could be successfuly carried .n in California, the same might be done here, especially if it were simply a question of climatic adaptability, for the climate of east Florida is more similar to that of South Africa, the habitat of the bird, than is that of California. I have closely watched the progress of these latter farms, becoming more interested yearly, so that last fall, when, in Atalanta, I had an opportunity to purchase some ostriches, I secured two, male and female, and brought them to my Indian River place on Merritt Island, which is about latitude 28. These birds did so well, seeming so perfectly at home and well adapted to the conditions, that I went back to Atlanta and bought the lot, fifteen in all, some of them very large and valuable, and I now have them all at home. Most of them were raised on a Los Angeles farm, but a few are native African birds.

"The value of an ostrich in South Africa is about \$500. I bought mine for little more than \$100 apiece, so that I may be said to have made quite a bargain. The birds seem to be perfectly at home, and feed upon the grass which grows plentifully upon my place. I also give them large quantities of corn and other grain, and occasionally try them with a little meat of some kind, of which they eat sparingly, for the ostrich is strictly a graminivorous feeder. When I first brought them down they ate little, and I concluded I must give them an appetizer, which I did, each one, in the shape of a good-sized asafoetida pill. Since that time they have eaten ravenously.

"Ostriches are like quails, in that they pair off, and need a run to themselves, separated from other pairs. At present mine are all together, as I have not had time to arrange their quarters. In Africa on the large farms a pair, has about forty acres to run in. I shall give mine only about two acres, which may be small for them at first, but to which I am sure they will readily adapt themselves in time. My birds have al-ready begun laying. I have gathered about six eggs, and the season is just beginning. Fifty eggs are laid during the season, one laying season to the year. The average weight of an ostrich egg is thirty-four ounces, some, of course, much larger, and it has the appearance of a ball of ivory. The shell is thin and delicate, and smashes easily if dropped when containing the yelk, but if the yelk is removed the shell is durable as china, and is largely used among natives as a drinking cup.

"Ancients used them commonly, and the famous draught of the pearl dissolved in vinegar is supposed to have been taken from an ostrich egg. The female sits on the eggs during the day, the male at night. This seems to be nature, but most ostrich farmers now use incubators, especially as the male bird manifests an unaccountable grudge against the young one, and kills it if possible. I shall introduce the incubator when I begin raising birds. Ostrich eggs sell for \$20 apiece, so fifty eggs a year makes a bird very profitable aside from the plumes, which bring in about \$600 per year. The finest feathers grow under the wings. Those of the male are usually black, and are the finest of all; the female plumes are lighter in color, and permit dyeing. Tail and breast feathers are also valuable. The finest feathers produced by the ostrich are the three plumes used as a head dress by the ladies of the court of St. James, and those who are presen ed to the Queen. Certain feathers are in demand for this, the finest on the bird, and they bring, of course, the highest prices."-Jacksonville Citizen.

# JUDGE OF THE SUPREME COURT.

Congressman Powers Enthusiastic Over Paine's Celery Compound, the Greatest Spring Remedy.



Judge Powers, who today represents thoughtful charges to a jury: Vermont in congress, entered the national house with a magnificent record as lawyer and judge of the supreme court of Vermont.

He is a fine type of the careful, learned, New England lawyer.

Though but 56 years of age, he was a member of the Vermont legislature a third of a century ago, and again in 1874, when he was speaker of the house. He has been state censor, a and of the state senate. In 1874 he became judge of the supreme court of congress. many of the most notable trials in the history of the state, and is the author of many of the most important opinions to be found in Vermont reports.

No judge on the supreme bench in any of our states has a reputation for more clearly and unimstakably expres-sing his opinions. His unqualified indorsement of Paine's celery compound ple in the face is the putting off at-in the following letter is as straightfor-ward and concise as any one of his letting slip these health-inviting celery compound if you wish to be well.

Hongatiul charges to a just. Honse of Representatives, U. S. | Washington, D. C., Feb. 19. 1866.; I have for several years been acquainted with the medicinal qualities of Paine's celery compound, and can enthusiastically indorse as a specific in many cases for which its use is recommended by its pro-prietors. H. HENEY POWERS, 1st Dist. Vt.

By far the best use that any tired or ailing person can make of these preci-ous spring days is to purify the blood worn, nervous system as nothing else member of the costitutional convention and regulate their nerves with Paine's celery compound. It is plain to any observant person that the best remedy Vermont, and reamined on the bench for neuralgia, persistent headaches until 1890, when he took his seat in and such like indications of low nerv-Judge Powers presided at ous vigor, is the one that most rapidly and completely nourishes the worn out parts. It is not in the power of any other remedy to do the vigorous work of With Paines' celery compound, re-Paine's celery compound in strengthening the jaded system, and in bringing it back to an energetic, healthy condi- right road to health. tion.

The real danger that stares sick peo-

spring days, when everything so strongly favors getting well. This greatest of all spring remedies is doing an as-tonishing amount of good these days among sick people and those semi-in; valids who are "run down" by the long, trying winter, or worn out and afflicted by disease.

The soul and life of sound health is well-nourished nervous system. can do. It is the one certain and permanent cure for sleeplessness, hysteria, nervous debility and exhaustion, rheumatism, neuralgia and the various manifestations of an unhealthy bodily condition, such as languor, nervous-

turning strength and cheerfulness soon show that one is undoubtedly on the

Paine's celery compound is the one real spring remedy known today that

ctly above the hand, and sees, with startling distinctness, the bones and joints, showing as dark and delicately graduated shadows, while the flesh is only faintly visible. The reason the bones appear is because they intercept the X rays, and thus prevent the tungstate surface from becoming fluorscent where their shadows fall.

## The Banners of the Sun.

The expedition which will go from the Lick Observatory to observe the cclipse of the sun in Japan next August will carry a novel photographic machine to picture the great coronal streamers that are seen around the sun when its globe is hidden behind the moon. The sun's corona has been pholographed during previous eclipses, but as its light is much stronger near the sun than at a greater distance, the photographs have invariably been overexposed for the brighter part of the phenomenon when so timed as to catch the image of the fainter parts; and, morsely, the outer portions of the strempers have been lost in the photographs when the exposure has been made short enough to give a good image of the bright inner portion. Mr. Burckhalter, of the Chabot Observatory, Oakland, who will accompany the expedition referred to, thinks he has contrived a machine that will equalize the exposure for all parts of the corona, and thus enable him to get a perfect photograph of the wonderful display around the sun during the eclipse. The principal feature of his invention is a rotating diaphragm, driven by clockwork and provided with a peculiarly shaped hole for the passage of the light, whereby the faint outer part of the corona will get a much longer exposure than the brilllant laner part.

## Mail-Protected Monarchs.

From 1885 to the time of his death the late Czar of Rusia never appeared outside his bed-room and study without a fine steel suit of mail, which would protect his body from the dagger of the assassin. Excepting his valet and his wife nobody had seen his suit of mail, but the Czar's unwillingness to go even to a cabinet council without it was an open secret in all the courts of Europe. Bismarck at one time wore such a coat, as did also Stambouloff and Crispi. The Italian ex-premier, indeed, still wears, for protection from the assassin's bullet or knife, a light shirt of mail of double thickness over the heart. None of these men, however, resorted to such precautions until repeated attempts at assassination had been made. Nicholas II, of Russia has waited for no such attempt on his life. Ever since the last arrests of nihilist students at Odessa he has worn a shirt of nickel and steel.

Better than "Keep Off the Grass.' "I should think the tourists coming to this place would destroy this lovely park of yours," said the Northerner to the Floridian.

"Well, they used to pick up the oleanders and steal my cocoanuts, but I put up that sign over there, and since that time they've respected my fights." The Northerner walked over to the sign and read as follows: "Please do not irritate the rattlesnakes."

Never read a book that refers to a woman as "a piece of delicate Dresden china." This is the stamp of a trashy book, and a trachy author.

## HOITT SCHOOL FOR BOYS. BURLINGAME, Cal.

"This excellent institution closes its fifth "This excellent institution closes its fifth year accredited at both of our universities. Ex-State Euperintendent Hoitt is well known in educational matters. The men-tion of his name as master of the school is a guarantee to all who know him, that none but first-class teachers are employed and that the school under his management ranks among the first of its kind. Nowhere are boys better cared for."-San Francisco Call.

## Billet-Fahrkarte.

It would be an advantage to have all over the world the same word for ticket, for railway, for postoffice and so forth. And something of this sort, how-ever rudimentary, did actually exist on the continent before the German empire arose and, in its newly awakened self consciousness, did its best to blot it out. In those days, for example, the word always used in Germany for ticket was "billet," and every educated man in Europe understood it. Now the word is "Fahrkarte," a word understood only by Germans and German scholars. It is a sorry perversion of patriotism thus to complicate the intercourse between nations. Nor has the effort even the merit of success. "Billet" is rejected as being French, but what of the second syllable of the word that has been substituted for it? No doubt "charta" is Latin, but it is equally certain that it has reached Germany through the French "carte." This is but one instance out of many. Germany, however anxious to be free from obligations to other countries, must still borrow many words from her hereditary foe,-Contemporary Review.

Twenty-one thousand one hundred and eighty-five shorthand writers writers against 7.

Three thousand nine hundred and forthe million maria and a state of the set

