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THE DAILY EXAMINER

JANUARY 27, 1898.

SCIENTIFIC MISCELLANY.

GLASS ETCHING FROM PRINTED DESIGNS—HOW TO SLICE MICROBES—A USE FOR SELENIUM—ACQUIRED HABITS OF WILD ANIMALS—A RUST PREVENTING PAINS—HUMAN RUMINANTS—ACETYLENE AS A POWER PRODUCER—THE ZEBROID—THE LONGEST STEEL TAPE.

A new method of etching on glass or porcelain has been patented by Herr Retzlaff, of Berlin. The usual German process consists in cementing a sheet of tinfoil to the surface, which is then uncovered for etching by a skillful cutting out of the pattern in the foil, and washing away of the cement. The improved plan is to perform this operation more simply and perfectly by chemical means. The pattern is printed or stenciled in grease colors on the tinfoil, which is then fastened to the glass by asphalt, and the prepared plate is placed in an acid bath that dissolves out the exposed parts of the foil. The asphalt is then washed off, when the glass is ready for etching in the usual way.

By means of the microtome, slices of vegetable and animal tissues down to a thinness of about 1-10,000 of an inch are obtained for microscopic study. Prof. Elmer Gates, of Washington, has now gone further, and even slices up blood cells and microbes by cementing them in a single layer between two glass slides and cutting the slides apart with a very thin blade of copper sharpened to the highest possible degree. The fine grain of the copper causes it to take an edge that no razor can approach. The cells are again cut by repeating the operation, and it is claimed that slices have been made only 1-100 as thick as the thinnest produced by the microtome.

Selenium, hitherto chiefly an interesting curiosity of the chemist's laboratory, has been recently used for coloring glass. When added directly to the glass in the melting pot, it gives a fine rose tint, varying somewhat with the purity of the selenium and hardness of the glass, and when the selenium is mixed with cadmium sulphide a beautiful orange red is yielded.

Sodium carbide, as described to the Paris Academy, is an inexplosive white powder, which, on slight heating, burns in air, leaving sodium carbonate. Its chemical activity is much greater than that of calcium carbide.

Civilization's advance is responsible for a remarkable change of habits in more than one wild animal. A familiar instance is that of the kea, the great New Zealand parrot, which was formerly esteemed as a friend to the farmer, but which has become a dreaded scourge on account of its acquired taste for the kidney fat of sheep. Dr. Schonland mentions the chacma baboon as a Cape Colony animal that has become similarly transformed. It has taken to killing lambs for the milk with which they have filled their stomachs, and it is increasing to an alarming extent on account of its wariness and the protection and natural food afforded by the fast-spreading prickly pear. Another South African example is the so-called "wet-gat spreeuw" (Spreo bicolor). This animal is now very distructive to fruit, which a few years ago it was never known to touch, its food consisting chiefly of insects. The Maanhaar jackal seems to have partially acquired a new liking. While its ordinary food is insects, and Dr. Schonland has been unable to find anything else in its stomach, farmers in certain districts—possibly where man has reduced its food—insist that it is very destructive to small stock.

The new rust-preventing paint of Dr. B. Kossmann, of Charlottenburg, Germany, is composed of the peroxides of earths of the cerium group. These are incorporated with linseed oil boiled with a mixture of boric acid and the peroxides. Graphite, Campblack, heavy spar, etc., may be used for coloring. The paint is claimed to fulfill all requirements, having sufficient oxygen to insure hardening of the linseed varnish, with freedom from any metallic base capable of causing rust by setting up an electrical action with iron.

Rumination or cud-chewing in man, according to N. Nattan-Larrier, is not known to be, as has been stated, chiefly found in males. It may be hereditary, and when involuntary is especially prevalent among nervous dyspeptics. It is not associated with special chemical change of saliva or malformation or lesion of stomach or oesophagus. When voluntary, it usually occurs in the weak-minded, but in children it may be imitative. Some idiots bring their food up at will for rechewing after retaining it for hours.

From experiments by M. Ravel, it appears that 6.35 cubic feet of acetylene gas generates in the gas engine one horse-power per hour, which is a reduction in fuel of two-thirds as compared with petroleum, The mixture of air with acetylene begins to be explosive when the proportion reaches 1.35 parts of gas to 1 of air, while the explosive force reaches its maximum with 12 volumes of air to 1 of gas, and disappears at 20 to 1. The flashing point is about 900° F., most other gases used for power requiring a temperature of 1,100° to ignite them. The temperature of combustion is much higher than that of other gases. Great rapidity of the transmission of flame, low ignition temperature and extraordinary energy of explosion are therefore the special characteristics of this gas.

Since the domestication of the zebra, it has been suggested that mixture with the horse would give a half breed combining the qualities of the two animals, as the mule combines the horse and the ass. The new hybrid is announced by the Baron de Parana, the animal being now in the second half of the first year. The "zebroid" as it is called, is a male of a bay color, with zebra-like stripes, which are hidden on the body by the thick winter coat. The black mane resembles that of the zebra, the tail being like a mule's. The haunch is large and well rounded, the chest long and high, the eyes and nostrils are large, the lips and head small, the legs muscular but delicate, and the hoofs small, black and hard. The creature is very lively but gentle.

The high quality of Swedish steel was strikingly illustrated at the Scandinavian Exhibition. A steel ribbon, cold-rolled, was twined like a silken band about one of the pavilions, the length of this monster tape being 2354 feet, its width 8 inches, and its weight 1146 pounds.

The Borchardt automatic pistol is cited as an example of rapidity in complicated mechanical movements. As 8 shots have been fired in one-third of a second, one-twenty-fourth of a second must suffice for advancing the firing bolt, exploding the charge, extracting the cartridge, and reloading and cocking for the next shot.

Can Now Walk

Laid Up for Three Years With a Scrofula Sore.

"I was laid up three years with a running sore on one of my limbs. I could not put my foot on the floor when my husband got a bottle of Hood's Sarsaparilla. I have taken four bottles and I am now a well woman." MRS. CLARA THOMPSON, Malega Mines, Nova Scotia.

Hood's Sarsaparilla

Is the Best—in fact the One True Blood Purifier.

Hood's Pills cure all Liver Ills. 25 cents.

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KLONDIKE BAR.

Important Announcement

Great Interest to Farmers.

The management of the Charlottetown Soap works, announce to the farmers of Prince Edward Island, that they have purchased at a very low figure for a term of years all the grease by product of the Charlottetown Pork Packing Factory, accumulating from time to time, and are in a position to supply farmers and others with a cheap soap far superior in quality to the home-made article, and at a price so low, as to make it scarcely worth while to worry about soap supplies hereafter

KLONDYKE BAR will be for sale in a few days by all dealers, at the low price of ten cents per bar of three pounds.

THINK OF IT.—A first-class laundry and scouring soap only 10 cents for 3 lbs. It will be a waste of time and money for farmers to bother about soap making now. The grease he has sold to the Pork Factory for 5 cents per lb, will be returned to him, manufactured into a first class article of soap at a cost of a fraction over 3 cents per lb.

JAS D LAP THORN & CO.

Ask your dealer for K[illegible] Bar, and take no other.

$1.25

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of mens light Dongola laced boots, suitable for wearing under rubbers and overshoes.

$1 00

for your choice of a lot of adies' and girls fine boots.

60 & 75c

Lots of ladies' slippers, Moosehide Moccasins, from 50c a pair up.

R. K. Jost

Stamper'sCorner.

Sores.

"Running sores appeared on my leg and spread over the entire lower portion of the limb. I got no help from medicine till I tried yours. I was cured by one bottle of

Ayer's Sarsaparilla."

ISAAC ACKER, Cowans, Va.

An Old Woman's Cure For Dyspepsia.

"The most remarkable thing that has ever occurred to me in my earthly career," said Eugene McKelsey, "occurred some years ago when I was afflicted with dyspepsia. I had a bad case, I assure you. Oh, I was all broke up. Food was disgusting. I had no appetite, and I just walked around looking for some place to lay down and die. Some time passed, and I grew worse. I saw myself a physical wreck, and try as I might I simply couldn't revive appetite nor ambition. Finally I ran into an old woman, a kind of witch I guess—old women are always witches when they dress in faded garments and predict to you—who said that I would get well if I should go to a certain farm and three times a day cast an ear of corn to a white pig and then listen to it eat. I do not believe in such rites; but, dear me, I was so sick that I was willing to try anything.

"So I bought a white pig, secured a pen for it within the mentioned farm limits, and daily made three journeys with an ear of corn that I threw in and then watched the pig eat. Well, do you know the sound of that pig crunching and sucking those corn grains made me hungry. Oh, I enjoyed the sensation so much. It made me ravenous. When I returned from my walk I wanted to eat. So I continued visiting the white pig and eating three good meals a day until I was myself again and as healthy as I am now. I don't care to understand the whyness of it now. I am only too glad to be well."—St. Louis Globe-Democrat.

A man's health is the rope by which he climbs to success. If he can keep his health he will go on to success. Yet his health is the very thing he neglects more than anything else. It is easier to keep health than it is to regain it. When a man feels himself running down, when he realizes a loss of vitality and energy, he must call a halt. The strands of his rope are parting rapidly. Dr. Pierce's Golden Medical Discovery has helped thousands of men in just this condition. It makes health, it makes pure, rich blood, it forces out impurities and kills germs. It doesn't make any difference what name you call your trouble by—dyspepsia—kidney disease—rheumatism — consumption — skin disease, the "Golden Medical Discovery will cure it absolutely. None of these diseases can retain hold on the body when it is full of rich, pure blood.

Send 31 one-cent stamps to cover cost of mailing *only*, and receive free a copy of Dr. Pierce's Medical Adviser. Address, World's Dispensary Medical Association Buffalo, N. Y.

NOTICE

NOTICE IS HEREBY GIVEN that an application will be made to the Parliament of Canada at its next session upon behalf of The Manufacturer's Guarantee and Accident Insurance Company, for an Act to change the name of the said Company to "The Guarantee and Accident Insurance Company of Canada," or such other name as the Parliament of Canada will permit, and the Directors may approve of, and to ratify and confirm the By-law passed by the said Company providing for the issue of Preference Shares in the said Company.

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THE TATTLER.

"Mlle. Mark Twain" is what Figaro of Paris calls the daughter of Samuel L. Clemens.

Mary Anderson Navarro is not going to sing on the stage professionally. Nevertheless she is going to Paris for the purpose of cultivating her voice.

Mrs. Kate E. Johnson of Norton, Kan., has been elected county treasurer on the Republican ticket. She owns two good farms and manages them profitably.

Miss Nellie Salome Thomas of Boston while in England went to Malvern, and, after decorating the grave of Jenny Lind, started a fund for a memorial window in the abbey.

Mrs. Lon V. Stephens, the wife of the governor of Missouri, has published in a newspaper the diary she kept when a schoolgirl and since her husband's political elevation.

Miss Susan B. Anthony, while in St. Paul not long ago, was given a flower for each year of her life. Seventy-eight children filed before her, and each one dropped a full blown rose into the suffragist's lap.

The Boston Advertiser tells of two women, Mrs. Nellie Kimball and Mrs. Emma Hamilton, who own coal and wood yards. Both women are prospering and both attend personally to the details of the business.

Mme. Josefa Humpal Zeman of Chicago is the only Bohemian newspaper woman in this country, and she was recently honored by the male members of the National Slavic Press association by being elected secretary of that organization.

Miss Augusta Main of New Berlin, Conn., charged with an assault with intent to kill, declared in court that there were two things in the world she hated, and they were men and dogs. "I never see either," she said, "but what I ache to kill them."

Countess Hermann Zichy is about to open a tobacconist's shop at Budapest. Her husband was obliged to resign from the Hungarian parliament on account of his debts and for a time edited a Hungarian newspaper in New York. The countess has sung on the music hall stage.

Lady Marcus Beresford had a recent exhibition of cats at the Crystal palace cat show. It is said that she has the most remarkable collection of tabbies in the world. All the cats are named and know when they are called. They are devoted to their indulgent mistress, who has a man specially to care for them.

It is a fact worthy of note that Mrs. C. B. Lincoln of Plattsburg, Mo., who has won so many medals for her wholesome bread, as exhibited at several fairs, expositions, etc., is not a graduate of any cooking school. Her mother taught her to make bread when she was about 12 years of age, and she in turn has taught her little daughters.

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Hockey Sticks

from 20c up.

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100 puns.	Bright	Porto Rico
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55 puns.	[L]"	Demarara.
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We offer them at sacrifice prices to clear at once It will pay any buyer to see them

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Sole Agents for P. E. I.

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