

Prof. Orden N. Eood of Columbia College, appear in a late number of *Scientific Journal*. He concludes that the nature of the lightning discharge is more complicated than has generally been supposed, and that it is usually, if not always, multiple in character; that is, each flash is made up of a number of apparently instantaneous electrical discharges. The duration of these isolated constituents varies from intervals of time shorter than one sixteen-hundredth of a second up to others as great as one-twentieth of a second.

A PAPYRUS which was discovered a few months ago in a tomb in Egypt has recently been fully translated by a profound scholar of Heidelberg. He finds it to be an allocution of Rameses III. "to his people and all men on earth," recounting the great deeds done in the days of his father and grandfather. The discovery is a valuable one for Biblical students, as the royal writer gives with particular details all the causes which led to the downfall of the Mosais reform and the exodus of the Jews. There is apparently no doubt at all about the authenticity of the MS., which is large, well-written, and well-preserved.

MISCELLANEOUS ITEMS.

A HALF-SOVEREIGN some thirty years ago was not uncommonly known as a "goldfinch."

A LEIPZIG bookseller calculates that 861,000,000 copies of Luther's translation of the Bible have been printed from the beginning to the present.

A KENTUCKY man has carefully preserved for twenty-seven years the bouquet Jenny Lind held in her hand at one of her concerts in Louisville.

THE malt tax in England last year amounted to over \$38,000,000, or about \$1.25 per head for every man, woman and child in the United Kingdom.

THE resident population in the United Kingdom in the middle of 1872 was estimated at 31,858,933; that of England and Wales amounting to 23,074,600; of Scotland, to 3,897,625; and of Ireland, to 5,386,708.

A BEAUTIFUL young girl was married in San Francisco last week, and at the conclusion of the marriage ceremony she turned to her husband, and said: "George, kiss me; I am dying." The husband complied with the request, and at that moment the young bride fell dead on the floor.

EVERY APPLE-TREE.—The island of Ceylon abounds in vegetable curiosities, not the least singular of which is a tree called "Eve's apple-tree." The color of the fruit is very striking and beautiful, being orange on the outside and deep crimson within, and it presents the appearance of having had a place bitten out of it. It is also a deadly poison. These two facts have caused it to receive the name of "forbidden fruit," or "Eve's apple-tree." The Mohammedans considered Ceylon as the site of Paradise.

ACCORDING to the last census of the United States, there were eleven States whose manufactured products exceeded \$100,000,000, as shown by the following table:

States.	Annual Products.
New York.....	\$783,194,651
Pennsylvania.....	711,894,844
Massachusetts.....	553,912,568
Ohio.....	289,713,610
Missouri.....	206,213,429
Illinois.....	205,629,672
New Jersey.....	169,237,732
Connecticut.....	161,665,474
Michigan.....	118,394,678
Rhode Island.....	111,418,354
Indiana.....	108,617,278
Total.....	\$3,441,232,788

DAYLIGHT FIREWORKS.—The Japanese have fireworks made expressly to be "let off" by daylight. The following description of them is taken from an account of a recent festival in the *Phosphorus Herald*.—"The second day was occupied with exhibitions of the ingenious daylight fireworks, of the manufacture of which the Japanese seem to be the sole masters. As usual, these consisted mostly of bombs, which, exploding high in the air, discharged sometimes various colored jets of smoke, and sometimes closely-folded packages of wire and paper, which unfolded themselves into parachutes of great bulk and symmetrical design. They were sometimes fish, which swam leisurely through the atmosphere to the ground; or snakes, which writhed themselves away over the tree-tops; or great birds, which hovered kite-like and motionless for an incredibly long time. Occasionally they took the shape of cottages, temples, human beings, magnified crabs of Delos, trees, and flowers—almost anything which a lively imagination could suggest. The smoke figures, however, were the most amusing. One of the most frequently attempted was a catfish with a body of thick fuliginous black and arms of lighter hue. Of course the fashion was very brief, the wind not allowing the smoke to remain undisturbed for more than a few seconds, but while it lasted it was perfect."

RHUBARB VINEGAR.—Pick the stalks, chop them fine, and drain off the juice, to every quart of the juice, allow three of water and one pound of sugar; add the mother from vinegar, and put the whole in a clean cask; set it in a warm place until mellow.

GOLDEN GRAINS.

LITTLE minds are tamed and subdued by misfortune, but great minds rise above it.

ONE of the most important rules in science of manners is an absolute silence in regard to yourself.

MOST of the shadows that cross our path through life are caused by our standing in our own light.

EVERY heart has its secret sorrow, which the world knows not; and oftentimes we call a man cold when he is only sad.

A MOTHER has no right to bring up a daughter without teaching her how to keep a house, and if she has an intelligent regard for her daughter's happiness will not do it.

THE mere presence and assemblage of women is nothing without the charm of refinement; knowledge, vivacity, power and inspiration; and these are not born in a day, and seldom come till middle and mature life, as experience becomes profound and feelings deep, when flippancy is not mistaken for wit, nor impertinence or gallantry.

THE very darkest day wears at length to evening, and it is of no avail to hide meantime the slow-paced hours. It is a beneficent provision of nature that we cannot grieve perpetually, if we would. The keener the pain, perhaps, the sooner its intensity is worn out. Our best-beloved dies, and we think our life has been buried in that grave. But the flowers do not grow on it more surely, under the rains and dews of Summer, than do little buds of new interests and fresh hopes spring from the parched soil of our hearts. The cherished grace of the dead day may never come back, but the new day has still twenty-four hours in it, and each of those hours, if we do its work faithfully, is a minister of consolation.

IN social life, we reap that which we sow, and society is often to us but a reflection of our own nature. The selfish or proud, or cold or jealous disposition, suffers annoyance, disappointment and pain from the same sources which bring love and joy to the heart of the gentle and kind. Every characteristic has a magnetism by which it draws its like to itself, unfolding from others that which is in sympathy with itself, and thus perpetuating and recreating it. There are no blessings which may not be changed into evils, no trials or sufferings that may not be transformed into blessings. Temptation brings ruin to one, and strength to another; not by its innate power, but by simply evolving the character that is tried. Pleasure is a poison to one, and a healthful refreshment to another. The same privileges, the same discipline, will cause one to rise to heights of virtue, and another to sink into weakness and shame. Our welfare and our woe do not arise chiefly from without, but from within. The world is but the reflection of the soul. Life is the history, not of events, but of mind, not of situations, but of character.

FAMILY MATTERS.

VEAL POT-PIE.—Boil the veal, and proceed exactly as for chicken pot-pie.

APPLICATION FOR CHILBLAINS.—Two parts oxide zinc; one part tannic acid; ten parts glycerine; eight parts balsam Peru; four parts camphor; to be applied night and morning.

VEAL OUTLETS.—Trim free from fat, slices of nice veal, beat up the yolks of eggs, and mix in rolled cracker or rasped bread, and season with pepper and salt; roll the outlets in the preparation, and fry gently in butter, without burning, until thoroughly cooked. Serve with the cold butter remaining in the spider.

TINCTURE FOR CHLORIDE OF IRON FOR CORNS.—Dr. C. Barber states (*Lyon Medical*) that he has cured three cases of corns on the toes by the application of a drop of the tincture of chloride of iron applied on the corns night and morning. This application was continued for fifteen days in one case, when the corns from which the patient had suffered for thirty or forty years were entirely destroyed, and pressure on the part gave not the least uneasiness.

VEAL PIE.—Prepare a plain paste, cover a deep plate with it, set it in the oven until baked. Have ready veal that has been parboiled, cut in small bits, lay the meat on the crust, until it is evenly full, put in each pie a piece of butter as large as the bowl of a tablespoon, broken in small bits, a little salt and pepper, a spoonful of flour, and a little of the broth in which the veal was boiled. Put on the top crust, which should be made rather stiffer than the bottom, and rolled thin. Bake immediately in a quick oven. Serve with potatoes, and any other dressed vegetables; sponge-cake, or any other cake pudding is a proper dessert.

BOILED MILK TO REDUCE COFFEE.—Never weaken coffee by adding boiling water, a teaspoonful will spoil a whole boiler. When the coffee is desired with less strength, reduce with hot milk, or cream. Some are fond of coffee, but find it disagrees with them, such persons would find the following rule useful. Fill the cup two-thirds full of milk, boiling hot; sugar to taste, and half the space left in the cup fill with strong coffee. When cream cannot be had, the yolks of eggs, beaten to a froth, and stirred gradually into milk, in the proportion of three to a pint, is a good substitute; pour the milk and egg in

the cup, and stir with a spoon while filling with coffee.

CURRENT VINEGAR.—To make a barrel, mash two bushels of currants, press out the juice, and wash the pulp free from the acid of the fruit in filtered rain-water; put the juice in a barrel; add to the water in which the pulp was washed, two gallons of molasses; dissolve it thoroughly, and pour it in the barrel; add sufficient rain-water to make the barrel three-quarters full. Stir into one gallon of water a teaspoon of hop yeast, and add it to the other ingredients. If the vinegar is not needed until winter, omit the yeast. Set the barrel in the sun, and place in the bung-hole a junk bottle. The next fall add eight gallons of soft rain-water, which will make the barrel full of vinegar; shake the barrel, while turning, every day.

HINTS TO FARMERS.

GYPSUM or plaster may be applied to corn either before or at the time of planting, or it may be scattered on the plants after they are up.

BREEDING as well as muscles are required on the farm. This is getting to be more and more the case every year with the introduction of more and better machinery.

CULTIVATING corn and potatoes costs more than most farmers realize. We should use the best cultivators, and do the work carefully, thoroughly and frequently.

HORSES are required to work very hard this month. Feed liberally, and be very careful to clean them after the day's work is done, so that they will get a good, comfortable night's rest.

SHEEP should have all the hay they will eat at this season. The grass is very succulent, and is apt to produce scours. Bring the sheep into the yards during storms, but be careful that the yards and sheds are dry and clean. Keep the sheep carefully tagged.

Cows until turned out to grass should have good hay, and three or four quarts of bran, and one or two quarts of corn-meal per day; and it would be well to continue the bran and meal, mixed with a peck of cut hay, for a week or two after the cows are turned to grass.

HORSES ARE CHEAPER THAN MEN.—Some learned ignoramus has said that a horse requires for his support the produce of five times as much land as a man. It is not true—unless you feed the man on hay and oats! Steam is cheaper than horses, and horses are cheaper than men, for the simple reason that coal is cheaper than hay and oats, and hay and oats are cheaper than beef, mutton, pork, butter, cheese and bread.

SOUTHERN CALIFORNIA possesses probably the most accessible climate than can be found where the fruits of the temperate and torrid zones grow side by side. Here in the open air are oranges, lemons, limes and pomegranates, and other fruits of this description, while contiguous to them may be seen the apple, pear and peach—the latter almost indigenous to the soil. Grapes are grown in large fields covering sometimes hundreds of acres, and cultivated almost as corn with us, without the aid of stakes or trellises. The orange and similar trees are non-deciduous, and always retain their brilliant foliage.

BARN COLLARS BEST.—Whether 'tis better to use the space beneath the barn as stables or as a receptacle for the manure from the stables on the floor above—that is the question. One farmer thinks the cost of a cellar for manure alone is not warranted by the results in profit and loss account, and another not only refuses to do without his cellar for this purpose, but thinks the deeper it is the better. The one advocates the throwing of the manure out of the windows, or totting it into the barn-yard with wheelbarrows. The other considers his manure pile a bank of deposit to which every scrap that can be gathered with a miser's care may be carried and accumulated, and on which drafts may be made that are certain to be honored in the shape of rich fields and a bursting granary. He not only digs a cellar 10 feet deep, but cements the bottom to make it proof against a hog's snout, and turns into it a score of these indefatigable creatures, which leave no straw untarned that covers a stray grain of corn or particle of meal. These laborers never strike, save for a fresh lot of manure, which they soon reduce to the finest condition. They desire no wages, no holidays, work wet or dry; though they grant, they never grumble, and in the end put money in their employer's purse. On the whole, this is regarded as a great argument in favor of barn collars.

HUMOROUS SCRAPS.

NATURE'S tailoring.—A potato patch. It is a good suggestion that people who advertise on fences mix a little spelling with their paint.

THE Graphic asks, "What's in a name?" and answers that Bar-Jonah never owned a barge in his life.

CARAMEL SPENCER'S menagerie is what a Sioux City Telegraph operator made out of cerebral spinal meningitis.

THERE will be a great rush to the University of Michigan. The very first female graduate of that institution has just married one of her classmates.

A STOK libertine said, "Doctor, I suffer the pains of the damned." "You may think so now," responded the physician, "but wait a bit, and you'll know better."

A MAN in Camden attempted to leap to the ground from a garret window with a parachute. His widow has no earthly use for the parachute, and it will be traded for a good second-hand gravestone with the name of Smith on it.

A LITTLE boy asked Dr. Burgess, the preacher, if he would have a light. "No, my child," said the doctor, "I am one of the lights of the world." "I wish, then," replied the boy, "you were hung at the end of the alley, for it is a very dark one."

BARON ALDERSON, learned, gentle and good, could make puns, and had much drollery. A jurymen once said that he was deaf in one ear. "Well, then," said Alderson, "you may leave the box, for it is necessary that a jurymen should hear both sides."

AN old lady visited a travelling circus. She was delighted in every respect but one. Speaking of the proprietor, she said, "He has everything in his show that is on the bills but the hippodrome. I wonder where he keeps his hippodrome? Is it dead?"

A GENTLEMAN who had left his wife alone at the theatre on Saturday night, while he went out to get a whiff of fresh air "apologized" on his return. "Dear me," said she, "I thought you went out to give me a chance to flirt with that man with the black moustache." She has had no cause to complain of want of attention from her husband since.

OUR PUZZLER.

74. CHARADE.

My first is attached to your head;
My second belongs to your hand;
I think, what to my first adds a grace;
And my whole you may soon understand,
S. R.

75. CROSS PUZZLE.

1. This is an animal, you'll find.
 2. Another one this brings to mind.
 3. This is what you did yesterday.
 4. A town in Ireland's this, I say.
 5. With FAVORITE I'm this, I own.
 6. This plainly tells an English town.
 7. This is a portion of your frame.
 8. A color this will surely name.
 9. A poem this, you'll clearly see.
- So please to find the same for me.
These form a cross; the centrals show
What you're with THE FAVORITE, I throw.

76. CLASSICAL MENTAL PICTURE.

A great conqueror besieged and captured a maritime city of Phoenicia. During the assault nearly all the inhabitants were slain, and those who escaped were afterwards put to death upon crosses fixed by the sea-side.

77. DOUBLE ACROSTIC.

1. A luscious beverage behold;
 2. Much prized by country folk, I'm told.
 3. A sweet songster now I name;
 4. Pretty, lively, clever, tame.
 5. A Greek writer of ancient fame;
 6. Letters nine compose his name.
 7. A river of Spain appears in view,
 8. Noted for its curious hue.
 9. A metal often thought a prize;
 10. Its value great in miner's eyes!
- My initials and finals, downwards read,
Will name two authors, and both of them dead.

MINNIE.

78. LETTER PUZZLE.

The following words, in the order named, will form three plain capital letters—the well-known initials of a poetess. The initials of these letters name three famous poets.

1. Grief, writhed; a circle; a knock; the time of light; a convulsive sigh; rainy; ancient; the spine; eminent ability; uproar.
2. An odious sea-weed; belonging to winter; expenditure; to disfigure; a prick as stone; motionless; a hill; frequently; hateful; redemption; excessive self-love.
3. Decay; a nocturnal carnivorous bird; to bend; a measure; to stoil; a metal; an unexpanded flower; a kind of vase; a deep mountain pass; according to law; an evening party.

79. LOGOGRIPH.

If you six hundred take,
And nothing add thereto,
A fish you'll see, of letters three,
If rightly placed by you.

GEORGINA.

83. GEOGRAPHICAL CHARADES.—1. Dun-dee (Dundee). 2. Don-cast-er (Dopcaster). 3. Hunt-ington (Huntingdon). 4. Pap-yow-a (Papua). 5. Trip-on-ile (Tripoli).

84. DOUBLE ACROSTIC.—Egyptian Pyramids—Colossus at Rhodes. 1. Em-pree-s. 2. Glad-stone-E. 3. Yarb. 4. Potat-a. 5. Teignmouth. 6. Inventor. 7. Antagonist. 8. Nicaragua. 9. Paris. 10. Ubiquity. 11. Robert Burns. 12. Alps. 13. Michael Angelo. 14. Instrumental. 15. Douro. 16. Scaphic.

85. VARIATIONS.—Rollandshire. ANSWERED CORRECTLY—Nos. 6 and 62, by J. H.