

SCIENTIFIC AND USEFUL.

BELMOTORS made of silvored mica are being used for locomotive lamps in the United States. They are said to be very efficient and economical.

To preserve albumen for photographic purposes, beat white of egg to a stiff froth, and set aside. After some time the albumen becomes dry and hard. For use it is rubbed down with a little water, and strained.

SILKES of Campeachy logwood and fustic, blended together and moistened with syrup, have been offered in the American market for "German saffron." The price of saffron has lately risen, and this has given rise to the fraud.

PLANTS AS WEATHER GUIDES.—A Prussian horticulturist has made some interesting observations which tend to show the usefulness of certain plants as weather guides. Thus he finds that the different varieties of clover contract their leaves on the approach of rain. When the leaves of chickweed unfold, and its flowers remain erect till mid-day, fair weather is at hand; but the closing of the flowers of the wood anemone indicates that rain is imminent.

GLASS FLOWER STAKES.—"Window gardeners," writes a correspondent of a gardening contemporary, "may perhaps be glad of the following hint. Bladder glass tubes, such as are used for chemical purposes, and which can be readily procured at most chemists' shops, make very pretty transparent stakes for pot flowers. They are also inexpensive: I pay sixpence for a length between four and five feet long, and I have no doubt they can be had for less. The tubes can be readily broken at the length required by previously filing them round.

A DURABLE PASTE.—Four parts, by weight, of glue are allowed to soften in fifteen parts of cold water for some hours, and are then moderately heated till the solution becomes clear. Sixty-five parts of boiling water are now added, with stirring. In another vessel thirty parts of starch paste are stirred up with twenty parts of cold water, so that a thin milky fluid is obtained without lumps. Into this the boiling glue solution is poured, with constant stirring, and the whole kept at a boiling temperature. After cooling, ten drops of carbolic acid are added to the paste. This paste is of extraordinary adhesive power, and may be used for leather, paper, or cardboard with great success. It must be preserved in closed bottles, and will keep for years.

NEW SAFETY-APPARATUS FOR MINERS.—Captain Denarouse (says the *Athenum*) has been recently exhibiting in the Catacombs of Paris the effects of his safety-apparatus for preserving life in an atmosphere of carbonic acid, or in an explosive mixture of fire-damp and air. A miner carries on his back a knapsack which contains a supply of pure air; from this a tube is conveyed to the mouth, and the nostrils are closed by a spring; the same vessel is connected with a bright lamp fastened to the miner's chest. Both the man and his light are perfectly independent of the atmosphere in which he works. The knapsack being connected by a tube with a large reservoir of air, existence and light can be maintained for a long period in an asphyxiating or an explosive gas. Captain Denarouse proposes to use his apparatus for diving purpose also.

FAMILY MATTERS.

ESSENCE OF ROSES.—Mix three drachms of otto of roses, with two pints of alcohol.

ESSENCE OF BITTER ALMONDS is made by adding one part of oil of bitter almonds to seven parts of rectified spirits of wine.

VEGETABLES.—Vegetables should never be cooked in iron pots unless the latter are enameled or otherwise coated internally.

CREAKING BOOTS.—Stand the boots in salt and water for four-and-twenty hours. When dry it will be found that the creaking will be done away with.

CREAM CHEESE.—Take four quarts of new milk, and one quart of cream, together with one pound of almonds beaten up, half an ounce of powdered cinnamon, and one pound of loaf sugar. Curdle the milk by the addition of some rennet, and having drained away the whey, compress the curd into a solid mass.

SALAD DRESSING.—Salads are acceptable and useful in spring. Some like them served with a mixture of sugar and vinegar. The regular salad dressing is made with the yolks of three or four hard-boiled eggs mashed smooth with a piece of butter the size of a walnut, and vinegar added to taste—mixed with the lettuce just as it goes to table.

CREAM CAKE.—Put one cup of water and one cup of butter on the stove to boil; when boiling stir in two cups of flour, and when cool add five well-beaten eggs; drop this on your baking-pan, one spoonful in a place, and rub each over with the white of an egg. Bake in a hot oven. For the cream, beat one pint of milk, and when boiling stir in two eggs, one cup of sugar and one half cup of flour beaten together, with a little cold milk, and let it boil till sufficiently thick. Flavor with lemon.

ACQUAINTANCE TO THE EAR.—In case of very small insects getting into the outer ear, the drum-head will prevent the progress of the intruder, which may be killed or dislodged with ease by means of a few drops of oil. The insect

called the earwig is not more likely than any other insect to enter the ear. If a child put a seed, a little pebble, or any other small body of that nature, into the ear, it may often be extracted by syringing the passage strongly with lukewarm water for some time, but the operation should always be performed by a medical man.

AMBER PUDDING.—Three eggs; their weight in sugar, butter, and flour; juice of one or two lemons; piece of one, grated. Work the butter with your hand till like cream, then add the flour, sugar, and beaten eggs by degrees, then the juice of one or two lemons, with the peel grated. Butter a mould thickly, and when the ingredients are well mixed, pour it in, taking care that the mould is quite full. Butter a piece of white paper, cover it over the top, tie it well over with a cloth, and put it into a saucepan of fast-boiling water. Time—three hours to boil.

SWEET PICKLE OF MELON (to serve with roast meat).—Take, within three or four days of their being fully ripe, one or two well-flavored melons; just pare off the outer rind, clear them from the seeds, and cut them into slices of about half an inch thick; lay them into good vinegar, and let them remain in it for ten days; then cover them with cold fresh vinegar, and simmer them very gently until they are tender. Lift them on to a sieve reversed, to drain, and when they are quite cold stick a couple of cloves into each slice, lay them into a jar (a glass one, if at hand), and cover them well with cold syrup, made with ten ounces of sugar to a pint of water, boiled quickly together for twenty minutes. In about a week take them from the syrup, let it drain from them a little; then put them into the jars in which they are to be stored, and cover them again thoroughly with good vinegar, which has been boiled for an instant, and left to become quite cold before it is added to them.

PUDDINGS FOR INVALIDS.—Custard fritters.—Boil half a pint of milk with cinnamon, lemon, and bay leaves; add two ounces of sugar, one ounce of flour, a little salt, and three eggs; beat all together, and steam this custard in a plain mould or basin, previously spread inside with butter; when done firm and quite cold, cut into square pieces and dip into frying batter; drop separately in boiling fat, fry a light brown color, and dish them up on a napkin. **Evo Pudding.**—Six ounces of finely grated bread, six ounces of currants, six ounces of sugar, six eggs, six apples, some lemon peel and nutmeg; let it boil three hours. **Lemon Pudding.**—Weight of two eggs in butter, which beat to a cream, same weight of flour, same of pounded white sugar, the grated rind and juice of two lemons; bake half an hour in a small flat pie dish, with a rim of paste round the edge; serve with sifted sugar on the top, and send up very hot. **Anti-Neuritis Pudding.**—Half a pound of best beef suet, half a pound of grated bread crumbs, half a pound of beaten white sugar, three eggs, well beaten and strained, the grated rind and juice of a large lemon; stick a mould with raisins, pour in the mixture, boil two hours.—*The Queen.*

GOLDEN GRAINS.

Nothing in the universe is independent.

The watchers are the first to note the dawn.

The world does not go far wrong when men sleep.

A good wife is the glory and joy of a good husband.

We open the hearts of others when we open our own.

How poor are they who have neither patience nor hope.

Never put implicit faith in a man who has once deceived you.

Have frequently lends importance to very insignificant objects.

Thorout.—There is too much talk, too much work, too little thought.

There is no greater punishment than that of being abandoned to one's self.

What matters it if one has not gold in his purse, if he has it in his heart?

Forgiveness.—Try what forgiveness will do before you resort to punishment.

By sinning we may avoid sinning; but by sinning we cannot avoid suffering.

Never show that you suspect, nor accuse till you have found that your suspicion was well founded.

Reason.—We do not altogether like the clearness of reason, notwithstanding our professions to the contrary.

He that blows the coals in quarrels he has nothing to do with, has no right to complain if the sparks fly in his face.

He who gives up is soon given up; and to consider ourselves of no use is the almost certain way to become useless.

Right Education.—Look to education; take care that it be of the right kind, and you need have no misgivings about the future.

Whoever would oblige himself to tell all that he has done would oblige himself to do nothing that he would be anxious to conceal.

Love is a science rather than a sentiment. It is taught and learned. One is never master of

it at the first step, whatever the romancists may say.

BOASTING seldom or never accompanies a sense of real power. When men feel that they can express themselves by deeds they do not often do so by words.

As every thread of gold is valuable, so is every minute of time; and as it would be great folly to shoe horses—as Nero did—with gold, so it is to spend time in trifles.

He seldom lives frugally who lives by chance. Hope is always liberal, and they that trust her promises make little scruple of revelling to-day on the profits of to-morrow.

CULTIVATION.—Cultivate the mind and heart; the manners will take care of themselves. Be natural. Enrich and care for the soil; the flower that springs from the germ implanted there will be sweet and lovely, brightening with its beauty the arid wastes of life.

VIRTUE.—We all have our ideas of justice, integrity, purity, benevolence, and we cannot estimate their value to us. We may and do fall far short of them in actual life, but we can never go beyond them, for every new ascent in virtue shows fresh heights to be gained.

HAPPINESS is like manna; it is to be gathered in grains, and enjoyed every day. It will not keep, it cannot be accumulated; nor need we go out of ourselves, nor into remote places to gather it, since it has rained down from heaven, at our very doors, or rather within them.

BAD TEMPER.—There are few things more productive of evil in domestic life than a thoroughly bad temper. It does not matter what form that temper may assume. Ill-temper at any age is a bad thing; it never does anybody any good, and those who indulge in it feel no better for it. After the passion has passed away, one sees that he has been very foolish, and knows that others see it too.

INNOCENCE AND VIRTUE.—Innocence is not virtue, and those who fancy that it is make a fatal mistake. Innocence is simply ignorance of evil; virtue knows it, appreciates it, rejects it. Infancy is lovely in its innocence, but life, with its stern realities, demands the strong, ripened rigor of manly virtue to resist its evil, to protect its good, to build up character, and to bless the world.

MISCELLANEOUS ITEMS.

The Japanese have decided to call six days of their new week Light, Moon, Fire, Water, Metal, and Earth.

A LITERARY gentleman who has travelled over the whole world says, that the ladies of the Royal Family of Russia cannot be matched for personal beauty.

The number of theatres in Russia is 142, mostly of wood. This gives only one for every twenty towns. Some of the seats of Government are without theatres.

A CHANGE OF FORTUNE.—Miss Hedley, 31 years of age, who has been an inmate of Oakham Workhouse, Rutland, for 16 years, has come into possession of £7,000, and may succeed to £14,000 more. She was the daughter of a surgeon formerly practising at Oakham.

INDIA-RUBBER.—The belt of land 500 miles north and 500 miles south of the equator, abounds in trees producing india-rubber. These trees, we are told, stand so closely together that a man may tap eighty in a day, the daily average yield of each being three tablespoonfuls. Forty-three thousand of these trees have been counted in a tract of country a mile long by eight wide. There are in Europe and America more than 150 manufactories of india-rubber articles, employing 500 operatives each, and consuming more than 10,000,000 pounds of gum a year, and yet the business is considered to be in its infancy.

HUMOROUS SCRAPS.

A CLEAN Sweep.—A well-washed one.

CAN a pretty woman be a plain cook?

BARNER'S MOTTO.—There's nothing like a lather.

A DOMESTIC broil makes an unsatisfactory meal.

Do ladies ever call their riding trousers saddle-bags?

The note of gas company are usually all set to the same metre.

THE THREE GATSON RAILWAYS.—Narrow gauge, broad gauge, and met-gauge.

TO THOSE INTERESTED.—For Mrs. Partington's last, inquire of her shoemaker.

One of the most successful of burglars is light; it is always breaking in on somebody.

CAN a son be said to take after his father, when the father leaves nothing to take?

A PARTY hearing of "a dog after Landseer," wanted to know what he was after him for.

WHAT is it that one must take without hands, unless he is too stupid to take it at all?—A hint.

Why ought the clergy to be done away with as an unnecessary class of men?—Because they are the surplice population.

No objection can possibly be made to receiving an epileptic patient at a hospital, because he is in a fit state of health.

"Don't worry yourself about my going away, my darling. Absence, you know, makes the heart grow fonder."—"Of somebody else," added the darling.

THE marriage ceremony among the bushmen of Australia is very simple, and don't cost a penny. The man selects his lady-love, knocks her down with a club, and drags her to his camp.

AN IRISHMAN'S WILL.—I will and bequeath to my beloved wife, Bridget, all my property without reserve; and to my eldest son, Patrick, one half of the remainder; and to Dennis, my youngest son, the rest. If there is anything left, it may go to Terence McCarthy.

THERE is a difficulty in finding a jury when an Indian comes before an Omaha court. One of a panel, being asked if he had any prejudice, replied, "No; only I've been chased by 'em, been in several battles with 'em, and would hang every man-jack of 'em at sight if I could."

IN THE CLOUDS.—A little boy six years old and a little girl eight were looking at the clouds one beautiful summer evening, watching their fantastic shapes, when the boy exclaimed: "Oh, Minnie, I see a dog in the clouds." "Well, Willie," replied the sister, "it must be a sky terrier."

AN Ohio man who passed round a plate at a religious meeting for contributions for the heathen, and then pocketed the money, has been acquitted of stealing by a jury of the neighborhood on the ground that he was the greatest heathen they knew, and therefore entitled to the money.

A LITTLE romance about Ben Wade's daughter and her "tall young carpenter" will have to be given up. Ben says that to begin with he made no objections to their marriage; in the second place that his daughter never was engaged to the carpenter in question, and thirdly that he never had a daughter.

OUR PUZZLER.

83. TRIPLE ACROSTIC.

Primals and finals downwards read,
The centrals also;
That done, I think you will concede,
Three male names they show.

1. To irritate, enrage, excite.
2. A Spanish town I bring to light.
3. O'er France this family held sway.
4. 'Tis often lovers run away.
5. Small murmuring brooks, you will agree.
6. Sceptre of Neptune, god of the sea. T.L.

84. THE NAMES OF POETS, ENIGMATI-CALLY EXPRESSED.

1. A grace in music, and a weapon used by warlike nations.
2. The opposite of moist, and a place for animals.
3. A metal.
4. One-half of a tea, and to sorrow.
5. Brilliant costume.
6. A place the profane never visit, and the reverse of well.

85. SQUARE WORDS.

1. Means bitter; existing; a volume of water; to keep off; an English county.
2. A bird; existing; faults; consequence; habitations.
3. A country in Europe; a woman's name; large lake in Switzerland; an animal; is found by the sea-shore.

86. ENIGMA.

How pleasing in summer, then nature is gay,
To roam through the woods in the early
morn;
When each songster, to welcome the dawning
of day,
Is carolling forth its tribute of song,
In such peaceful spots I may always be seen,—
Various kinds, various sizes and shapes, too, I
ween;
Though a resident here, I may also be found,
Where hurry and bustle always abound.
To King's Cross, then, please go. See, the porters
rush forth.
What causes the stir? 'Tis the mail from the
north!
Here I am again, and though strange it may
sound,
Though thoroughly harmless, I'm frequently
bound.
NORTHUMBRIAN.

ANSWERS.

70.—DOUBLE ACROSTIC.—Shakspeare, Lord Byron.—1. Samuel. 2. HorO. 3. Alexander. 4. KID. 5. Sennacherib. 6. Poony. 7. EstheR. 8. RomeO. 9. Eden.

71.—ANAGRAMS.—1. William Ewart Gladstone. 2. Dr. David Livingstone. 3. Sir Isaac Newton. 4. Sir Charles Eastlake. 5. George Frederic Handel. 6. Captain William Harrison. 7. Isambard Kingdom Brunel. 8. Sir Robert Stephenson.

72.—SQUARE WORDS.—

1.	2.	3.
HEULA	HOMEL	DRAY
REED	OLIVE	EVNA (raven)
CREED	VILK	EVENT
LEVE (love)	EVENT	ANNIE
ADDER	RETS	MATES

73.—LOGOGRAPH.—Pearl, ear, war, wan, ran, pin, pan.