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SCIENCE.

CHEAP ELECTRICITY .- Edison to devote Five Years to the elimination of the Steam Engine .- A New York reporter asked Mr. Edison what obtaining electricity direct from the combustion of coal instead of having to get it by first producing heat, then by heat steam-power, and finally electricity from the steam power. The combustion of zinc in a battery is one instance of the utilization of combustion in the shape of electricity instead of in the shape of heat as when coal is burned. The zinc in the battery is as completely burned up in the battery as the coal in the furnace; in one case electricity is obtained, in the other heat. Mr. Edison confessed that he could not yet see the end of the search he is engaged in.

it." said he, " and do the world the | thence to old age. greatest material service yet renof coal about one-hundredeth part | to two. of the real power we ought to get. The great secret of doing away will be found, probably within ten years. I have been working away to the point where an apparently four. insurmountable obstacle confronts me. Working at the problem now seems to me very much like driving a ship straight for the face of a precipice, and when you come to grief picking yourself up and trying it again to-morrow. There is an opening in the barrier somewhere and some lucky man will find it. I have got far enough to know that the thing is possible. I can get quite a terminate fatally. current now directly from the combustion of fuel. Jablochkoff tried his hand at the same thing some years ago and so did some Germans: but the results were laboratory curiosities only. I give myself five years to work at it and shall think myself lucky if I succeed in that

"The unscientific world has no conception of what such a discovery would mean. It would put an end to boilers and steam engines; it would make power about one-tenth as cheap as it is now; it would enable a steamship to cross the Atlantic at a nominal cost; it would enable every poor man to run his own carriage. It would revolutionize the industrial world. The electric motor is the ideal motor for all kinds of work. What we want is some means of producing the current cheaply. Now it costs ten times as much as it ought to. When we discover the short cut from the combustion of coal directly to electricity, we can heat and light houses do all the cooking, move all kinds of machinery, vehicles and boatsdo all the world's work, in fact, for almost nothing compared to what it now costs us. There is a good time coming for somebody."

SCIENCE.—The Philadelphia Ledger in the application of electricity: time. "Only twelve years ago Professor Tyndall gave his course of memorable lectures in Horticultural Hall. He had with him as a part of his apparatus an arc light. The lamp was regulated by clockwork, and cost probably ten times as much as the lamps made to day. It was im- berry. perfect in every way, the light being very unsteady, and several times ries beds. got out of order at critical moments. The current was supplied from a spell, volatic battery, at a cost that precluded its use for any but lecturing purposes. The battery besides being costly and troublesome, required the constant work of an attendant for a day or two to ' set up,' and it also was very apt to get out | which appear dry and solid. of order. Dynamo machines were not unknown at that time, but they best. Looking at the display of an improvement on root pruning. lamps in the exhibition, and the battery!"

EAR DISEASES.—Dr. K. Busknor will be largely washed in by fall ROCKFORDWATCHES rains before the ground freezes. in a very elaborate paper in Archiv rains before the ground freezes. fur Ohrenheilkunde gives the results of his clinical observations and those set must not be trusted to the winof twenty other aural surgeons. ter without staking or otherwise From these he finds that on an fastening them against injury from average out of every three individu- | the wind. For small trees a strong progress he was making toward als in middle life one does not hear stake to which the trunk is secured so well in one ear as in the other, by a two or three inch wide strip immense mass of detail:

1. The most frequent causes of tances around the tree. diseases of the ears would seem to be attacks of cold, affections of the nasal and pharyngeal cavities, and acute infectious diseases.

2. The liability to disease, of the ear increases from birth to the "Some day some one will get at fortieth year, and decreases from

3. Men are more subject to affecdered unto man. We now get out tions of the ear than women, as three

4. The external ear is affected in twenty-five per cent, the middle ear with the intermediary furnaces, in sixty-seven per cent, and the inner paper. boilers, steam engines, and dynamos | ear in eight per cent of the total number of diseases of the ear.

5. The left ear is more frequently at it for some months and have got affected than the right, as five to

6. The, acute affections of the middle ear occur less frequently in the summer and autumn than in spring and winter.

7. Of the total number of cases of ear disease in the outpatient cliniques about fifty-three per cent are cured, about thirty per cent are improved, 7 per cent. are unimproved and three-tenths of one per cent

FARM AND GARDEN.

SELECTING SEED CORN.—Farmers are year by year paying more attention to the selection of seed grain, giving extra care not only with respect to the variety, but to the germinating properties of the seed. The season of corn husking is the proper one in which to select corn for next year's planting. The points to be observed are, first, the size of the stalk upon which the ear grows second, that other things being equal, it should be selected from a stalk producing two good ears. The one most fully developed and nearest to your idea of a perfect ear should be selected. A few husks should be left on. It is not neccessary to keep it separate; but, if husking in the field, throw in with the rest, as it is sufficiently marked. When hauled to the crib the seed their husks. Hang them up in a suspended by a wire two or three feet from the rafters or other sup-

Don't depend upon your neighbors every year for seed corn. It is often a bother to them in a busy time. Besides, if you select corn RAPID PROGRESS IN ELECTRIC from the crib, in the spring you are often deceived. This year, then, makes the following note of progress | remember the seed corn at husking

> ORCHARD AND GARDEN--Lay drains were needed. Manure the asparagus patch.

> Fall spading is advantageous. Mulch the roots of fall-set things. Trim useless wood from black-

Clear late weeds from strawber-

Ventilate fruit rooms freely for a

Currants may be pruned after leaf-falling.

This is a good time to surfacemanure fruit trees.

In selecting red cabbage for pickling, take heads that are plump and English gardeners practice lifting

and resetting fruit trees to induce too were costly, and for lecturing fruitfulness. This treatment is purposes the battery was considered looked upon as equivalent to, and

Fall manuring .- A dressing of great variety and number of dynamo | manure over the roots of rhubarh, machines, it seems almost incredible or other perennial garden vegetables that it is only twelve years since or fruits in the fall serves the double such a man as professor Tyndall purpose of a fertilizer, and a prowas well pleased, rather than other- tection to the roots. No matter wise, to be able to exhibit his poorly how hardy a plant is, some winter regulated clockwork lamp, run by protection to the roots will be a some hundreds of cells in a volatic benefit. Applied early where it can the centre with a curry fricassee, salmis be and the valuable parts of manure or blanquette.

Steady the Trees.—Those lately while from an examination of five of duck or leather, will answer well. thousand nine hundred and five For larger sizes, the best way is to school children twenty-three per make them fast with three pieces of cent presented objective pathological | wire in the shape of a tripod. Put symptoms of ear disease, and thirty- a piece of cloth or leather around two per cent a diminution of hear- the tree well up, outside of which ing power. The following general fasten a wire to the stem. From conclusions are drawn from this this wire run the three wire stays to some stakes put in at equal dis-

> There has been an immense amount of breaking of harvesting machines this year. This was partly due to the fact that grain is very heavy, and much of it badly beaten down and tangled. Reapers had to cut very low to reach this fallen grain, and in many places wheat fields were badly gullied by rains last winter. The worst of all was that when breakages occurred there was in some cases no way to get repairs .- N. W.

There is no breed of fowls which has as quickly gained such wide- or via Kansas City and Atchison to Denver, conspread popularity, or which is better able to successfully maintain that popularity than the well known Plymouth Rocks. While they may be exceeded by the noted Light Brahmas in mere avoirdupois, or by the Leghorns in the matter of egg production in summer, for general and profitable purposes, taken all in all, the Plymouth rocks are excelled by no other breed.

HOUSEHOLD.

How to cook water .- I must tell you the old story of how the late Charles Delmonico used to talk about the new hot water cure. He said the Delmonicos were the first to recom mend it to guests who complained of having no appetite. Take a cup of hot water and lemon and you will feel better," was the formula adopted, and the cup of hot water and the lemon juice in it take away the insipidity. For this anti-bilious remedy the caterers charged the price of a drink of their best liquors-twenty five cenfs or more -and it certainly was a wiser way to spend small change than in alcohol. Few people know how to cook water, Charles used to affirm, "The secret is putting good, fresh water Into a neat kettle, already quite warm, and setting the water to boiling quickly, and then taking it right off to use in tea, coffee or other drinks, before it is spoiled. To let it steam and simmer and evaporate until the good water is all in the atmosphere, and the lime and iron and dregs only left in the kettle-bah! that is ears should be woven together by what makes a great many people sick. and is worse than no water at all." barn loft, and if mice are feared, Every lady who reads this valuable receipt of a great and careful cook should never forget how to cook water.

> Shellac is the best cement for jet articles. Smoking the joints renders it black to match.

A London physician prescribes a warm night-cap as preventive of night mare or disagreeable dreams.

A little borax put in water in which scarlet napkins and red bordered towels are to be washed will prevent their fad-

Common willow-leaves answer the same purpose for making yeast and bread that hops do, and are equally as good, about one-third more in quantity however, should be used.

AN IRON HOLDER, - Old boot tops cut into pieces, the right size and lined make good iron holders. The leather keeps the heat away from the hand.

Save a corner of a garden for a few aromatic herbs. They thrive nicely along the sunny side of the garden fence and they will require a deep and fairly rich soil. Thyme, summar savory, and sage are great additions to many soups and stews. Cut them just before they bloom on a bright sunny day. Tie them in bunches and hang up to dry.

POTATO BORDER. - Six potatoes, three eggs, one tablespoonful of butter, one of salt, half a cupful of boiling milk. Pare, boil, and mash the potatoes. When fine and light add the butter, salt, and pepper, and two well beaten eggs. Butter the border mold and pack the potato in it. Let this stand on the kitchen table ten minutes; then turn out on a dish and brush over with one wellbeaten egg. Brown in the oven. Fitt



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brated Bells & Chimes for Churches, Tower Clocks, &c., Zc. Prices and catalogues sent free. Address. MCSHANE & CO., Baltimore, Md.

KIND WORDS. WHAT OTHERS THINK OF BUDS AND BLOSSOMS -The following is from The Christian at Work, a first-class religious weekly, published in New York:
"In the City of Halifax, Nova Scotia, is

published a monthly magazine called Buns AND BLOSSOMS and edited by J. F. Avery. Each number contains forty pages, plentifully and handsomely illustrated, and at 75 cents a year is certainly one of the cheapest publications extant. But better still, it is one of the best. Its pages are full of the gospel spirit, excellent temperance sketches, missionary intelligence, short stories, household hints and suggestions, all entertaining clean and wholesome literature, suitable for the home and family circle, and calculated to promote purity and knowledge among its readers. We do not know what the circulation of this excellent publication may be, but of this we are sure, it ought to be double whatever it is, for it is just the right kind of reading to be put into the hands of young folks; bright, cheery, hopeful and strong, without cant or sickly sentimentality. We hold it as an indisputable truism that when an opportunity offers to promote the circulation of such literature among the young it becomes a religious duty to do so. Send to the publisher for a specimen copy, and you'll find that we have not said one half the good things we might concerning it."

SPECIAL OFFERIII

We will send back numbers till the end of 1884 for 50 cents, or for \$1 00 will take new names from date until end of 1885. So confident are we you will like it, we offer it for 25 cents remainder of the year. Send 6 cents for specimen and opinions of the press.

Buds & Blossoms. REV. J. F. AVERY, Editor,

Mizpah Cottage, Kempt Road, Halifax, N. S. Aug. 6.



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Nervous Debility, etc., etc. Pamphlets and Testimonials can be obtained from Druggists free. PRICES-Child's Pad, \$1.50, (cures Bedwetting.) Regular Pad, \$2.00. Special Pad for Chronic Diseases, \$3,00. Sold by

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