

SCIENTIFIC AND INDUSTRIAL

Peat fiber is coming into considerable use in the manufacture of brown paper, being about fifty per cent. cheaper than wool pulp.

According to Dr. Ozeretzkofski, hygienists among Russian soldiers, and exists as various diversities of form as it does among women.

The British Government has yielded to popular clamor so far as to assent to a new and thorough investigation of the merits of vaccination.

While the electric light is gradually taking the place of illuminating gas in Germany, the latter article is being extensively used on account of its considerable economy of heat.

Mr. A. B. Griffiths states that the process of converting iron into Bessemer steel results in the elimination of a basic slag, containing from fourteen to twenty per cent. of phosphoric acid.

The drainage area of the Yang-tze-Kiang River in China is equal to one-sixth of the area of our country, including Alaska. It is estimated that the enormous amount of sediment poured down by this river amounts to the denudation of the entire basin by one foot in 3000 years.

Admiral Akamatsu, of the Japanese Navy, has invented a new floating fort for coast defense. This fort is to be built on a kind of vessel made of steel, and 150 feet in length.

Formerly engineers estimated the strength of ropes by the old rule: "Four times the square of the girth in inches gives the breaking weight in hundredweights." Commenting on this rule an engineer says: "Apparently ropes are three times as strong now, and to get near the tabulated strength take the square of the girth in eighths of an inch and divide by 1000, or eight of the last three figures as decimals."

The Deutsche Handels Museum has recently issued some interesting figures relating to the world's coal fields outside of the North American continent.

In Brazil veins varying in thickness from seventeen to twenty-five feet are found in abundance, and in the United States of Columbia there is an abundance of the mineral.

Where Might was Right. Early in the spring a pair of woodpeckers built a nest in the hollow of an old elm tree at Forest Hill, N. J., and were deep in the career of housekeeping when a couple of birds of the same species arrived, and disputed their right of possession.

Recently the tree was cut down and split open. The hole was deep, and two feet from its mouth was the nest built completely blocking it up. It held four eggs, far advanced toward incubation. Twelve inches lower was the habitation of the wretched and defeated woodpecker, containing the dead bodies of four little featherless birds that had been ruthlessly yanked out and consigned to their fate.

A man was turned out of a New York lodging-house the other night for snoring too vigorously.

THE FARM AND GARDEN.

MOLE CATCHING.

The presence of moles, says the *Mark Lane Express*, is generally regarded as indicative of good soil; yet the farmer's first object on acquiring such soil is to get rid of them.

This subject has been suggested to us by a query from a correspondent: "How can I best get rid of the mole?" There are various systems of mole catching. Traps of various kinds are used.

STARTING A POULTRY YARD. This is a good time of the year for beginning in the business to commence keeping poultry. A correspondent of the *Orange Judd Farmer* has written the following hints for beginners.

One cock is sufficient for the same flock of hens. I usually give one to ten hens. Keep an account of profit and loss; this will help you in many ways.

UNDEE HASTE IN FATTENING. Make haste slowly is a good rule to apply generally. Animals that have been summered on grass will not bear, profitably, to be pushed on grain feed during the fall, as haste in this direction disturbs digestion.

DUCKS HATCHED INSIDE A SNAKE. A snake twelve feet long and as big around as a barrel was recently killed in an Ohio lagoon. Somebody took a knife, ripped the snake open and found twelve of a rare breed of ducks in the cavernous recesses of its viscera.

THE YOUTH'S COMPANION. The large advertisement of THE YOUTH'S COMPANION which we published last week? This remarkable paper has the phenomenal circulation of 80,000 copies weekly.

How's This! We offer One Hundred Dollars Reward for any case of Catarrh that cannot be cured by taking FRAZER AXLE GREASE.

GERMAN DICTIONARY. A first-class dictionary prices out at small price to those who are studying the German language. It gives English words with the German equivalents, and German words with the English equivalents.

DR. KOEHLER'S FAVORITE COLIC MIXTURE. For all domestic animals, will cure 99 out of every 100 cases of colic, whether fatal or non-fatal. Rarely more than 1 or 2 doses necessary. It does not contain any deleterious or dangerous ingredients.

It is a solid cake of scouring soap. Try it in your next house-cleaning.

PHOSPHATE FOR GRASS LANDS.

Grass is of the same order of plants as is wheat, and it is therefore only natural that what helps the grain should benefit it also.

RESTRICTION ASSURES SUCCESS. The *Orchard and Garden* credits the late E. P. Roe with the following sensible remarks: "The secret of success in small fruit culture might be found in two words—stimulation and restriction."

AGRICULTURAL FAIRS. As this is the season for county fairs, farmers should endeavor to take time to visit one or more. See what other farmers are doing, and if any have had good success in growing better fruit or vegetables, or raising better stock than the rest, strive to learn their methods.

HOOD'S SARSAPARILLA. A high, wadded collar and small hood are effective additions to seal up the neck, and smaller collars of plush or fur are very stylish upon Directors' capes of cloth.

What Scott's Emulsion Has Done! Over 25 Pounds Gain in Ten Weeks. Experience of a Prominent Citizen.

THE CALIFORNIA SOCIETY FOR THE IMPROVEMENT OF THE VINEYARD. SAN FRANCISCO, July 10, 1888.

I took a severe cold upon my chest and lungs and did not give it proper attention; it developed into bronchitis, and in the fall of the same year I was threatened with consumption.

W. L. DOUGLAS'S \$3 SHOES FOR GENTLEMEN. Our claims for this shoe over \$3 all other shoes advertised are:

W. L. DOUGLAS'S \$3 AND \$2 SHOES FOR LADIES. Both Ladies' Shoes are made in sizes from 1 to 7, including half sizes, and B, C, D, E, and EE widths.

JOSEPH H. HUNTER. ATTORNEY, WASHINGTON, D. C. WILL GET YOUR DECEASED ESTATE'S PENSIONS WITHOUT DELAY.

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NEWS AND NOTES FOR WOMEN.

Long wraps are in vogue for general wear. A new salad bowl is shaped like an open rose. Ribbons are used as freely as ever for trimming.

THE EMPRESS AUGUSTA. The Empress Augusta gave \$200 to the fund for the relief of the sufferers by the Antwerp explosion.

THE PRINCESS CHRISTIAN. The Princess Christian, daughter of Queen Victoria, has prepared three illustrated articles for the forthcoming volume of an English magazine.

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Your Pullets Must Lay.

Two or three weeks of judicious management now to assist the pullets in forming their first crop of eggs, so to speak, will make a vast difference in the product of eggs during the next four months.

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S'JACOBS OIL

For Swellings, Bruises, Cuts and Wounds. Two or three weeks of judicious management now to assist the pullets in forming their first crop of eggs, so to speak, will make a vast difference in the product of eggs during the next four months.

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RAYWAY'S READY RELIEF.

THE GREAT CONQUEROR OF PAIN. For Sprains, Bruises, Backache, Pain in the Chest or Sides, Headache, Toothache, or any other kind of pain, a few applications rubbed on by hand, set like magic, causing the pain to instantly disappear.

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