

Paper Manufacture and Its Methods.

The Chinese are supposed to have been the inventors of paper. They used rice straw or rags of cotton or linen for making their paper stock. Modern nations followed their example, but made few improvements on the ancient process until within the last forty years. Since then every decade has witnessed great advances in this industry. New methods, processes, and machinery have been devised, new materials brought into use, and new and multifarious forms of the manufactured product now enter into the economies of modern life. Rags are gathered in all parts of the world and brought by ship loads to the United States, but they are no longer the chief raw material. Paper fibers are obtained from old rope, jute butts, straw of the various grains, from many grasses and reeds, and from the wood of cypress, pine, poplar, spruce hemlock, basswood, sycamore and other trees. Now great mills prepare the fiber stock for paper manufacturers, who buy it by the ton, in bulk, and then work it into whatever shapes their business requires. As it costs far less to carry chemicals to the forests than it would to transport the logs, wood pulp establish ments are generally located near sources. Paper Manufacture and Its Methods. transport the logs, wood pulp establish ments are generally located near sources

of supply
The chief chemicals are lime, potash,
soda ash, and caustic soda. These alkalies,
dissolved in water to make the cooking
liquids, have been employed in huge
wooden tanks, in which, because the tem wooden tanks, in which, because the temperature could not be carried above boiling heat it was necessary to continue the cooking from two to three days. The progress of invention has recently made it possible to greatly reduce the time required for this purpose. The demand for paper in all forms for old and new uses is unlimited, and is daily increasing. In no part of the globe is there a greater variety of vegetable fibers than in the south, whose cane brakes, awamps, for ests and cotton fields can furnish inex haustible quantities for all time. The cotton piantations alone could probably cotton plantations alone could probably supply every pulp mil in American with a material cheapiy gathered and handled, and containing a long strong beautiful fiber.—Baltimore Journal of Commerce.

A Great Opportunity Lost.

A Great Opportunity Lost.

Mr Little has strong opinions not favorable to the current idea of the wealth, strength and prowess of China and her value as an ally, and considers that these are only remotely potential. He thinks the Chinese possess "a much less highly developed organization than do the Caucasian races." finds their religion consists in "propitiating evil spirits," and that they "can hardly appreciate the Christianideal." On the other hand, they have "many virtues," and, although the social system is undermined throughout by peculation and deceit. "from the armies which only exist in the commander in chief's wardrobe and the public granaries containing only chaff, down to the presents not intended for acceptance and the proclamations never meant to be observed," so that the empire is a sham, yet still he is forced to admit, on reflection and in fairness, that such is the persistent industry of the Chinese "that with highly gifted rulers to guide and rule them, they may yet be a great people."

As illustrations of their readiness to obey he points to the edict of Kublai Khan, which directed that the cemeteries should be plowed up, an edict obeyed and only revoked two centuries ago, and to

should be plowed up, an edict obeyed and only revoked two centuries ago, and to the Manchu orders which abolished the flowing robes and imposed the pigtail. The first emperor of the present dynasty ordered the tribes of Yunan, 'on pain of death, to learn Pekingose," and was obeyed Mr Little thinks that had we, when masters of Peking had the cour-age to usurp the dragon throne, and had we issued an edict prohibiting thence orth the mutilation of children's feet the command would have been obeyed, sullenly perhaps at first, but afterward thankfully." That, undoubtedly would have been an immense social reform, liberating from torture and physical de-formity the women of China.-London

Talbing at the Opera.

To a large extent the stupid custom of having music between the acts at theatres is responsible for the talking at the opera-For between the acta every lody, of course, wants to talk, and since at the theatre the orchestra merely furnishes a sort of background or support for the conversation, people naturally come to look upon the overtures and interredes and introductions to the second and third acts of an opera in a similar light. Even if entr'acte music in theatres were much better than it is commonly, this consideration alone ought to suffice to banish it from the theatres. It degrades the art and spells the public.-Henry T. Finck in the Cosmopolitan.

Dignify Your Craze.

It is a good thing if you have any particalso craze to dignify it by attending to it services A man may be very far wrong his opinion if he will assert it with out tent emphasis he will make many de believe there is something in it .-Sat Francisco Chronicio

Education in Jupan.

The people of Japan are greatly interested in the education and elevation of women in 1887 there were 128 new achiesis and societies for girls and women established in that country. These are in addition to the public schools, which have long existed - Public Opinion

Dr Honocque, of Paris has invented a gos spectroscope for investigating the thanges in the blood it is expected to prove of importance is studying outrition.

The practice of softening food for chill 'It is at the dren is deemed by dentists bottom of many a set of bad granders. one accentist declares.

The best books are within the reach of the most meages purse. You can get a good companion for as little cost as a

A Simple, Convenient Summer Stetres A respected citizen residing on North avenue has a peculiar way of seeking relief from the heat of summer, which is, perhaps worth mentioning before the annual exodus to fashionable watering places. The apparent advantages of his plan are its cheapness and homely similarly in the seeking of plicity He does not bother his head lay-ling out routes of travel among mountains, and lakes and along the sea shore Each summer is spent at the same place. At the approach of extreme heat he hies

himself at once to his retreat There are no musquitoes there, no brass bands, no crowds, no noise He enjoys genuine re-pose and quiet His life in the summer may be compared to that of those hermits may be compared to that of those hermits who occasionally take up their abodes in caves and recesses under the earth's surface. The Rochesterian's cave is the cellar under his residence. This he furnishes with rugs, an easy chair, a couch and a table. He passes his time pleasantly taking huge enjoyment out of an old fashloned, long stemmed pipe, and some books and papers. The air is quite as cool as can be desired, and the cellar being dry, he does not fear rheumatism or ma dry, he does not fear rheumatism or ma

This peculiar gentleman does not choose to sojourn in his cellar in the summer because he cannot afford to go elsewhere. He is, in fact, in comfortable circum-stances, retired from business, and living on a neat yearly income from his property. Being of quite an advanced age he dislikes traveling any distance. He thinks that his plan is the best for keep ing cool in summer without going away from home. He is not the only one who has adopted this plan. A Baltimore man who passes his summers in a cellar was described in one of the papers of that city some years ago. Which of the two first conceived the idea is not certain. The Rochesterian has had the plan in working order for three or four years.—Rochester Union.

Carbon for Electric Lighting.

It may be imagined that carbon, being made from the direct products of coal and made from the direct products of coal and petroleum, is a dirty material, offensive to the smell and more so to the taste. It is dirty in the course of its preparation, because the men working with it become as dirty and greasy faced as if they were working in a coal mine. Completed it is quite another matter, and the largest piece of it may be handled with kid gioves without soiling them. Neither is it offensive to the smell. The ordinarily curious citizen can tell all that. To secure testimony as to taste, however, it is necessary to go into the factory, by proxy of course, because you can't go yourself. There you are ready for the explanation that the carbon is submitted to such heat that the taste is all gone, and you are that the taste is all gone, and you are still readier to believe that this is true hour is one in which work is slack end the men and boys are taking it easy There's one who is smoking a peculiar pipe, presenting an entirely novel appear

What it is you can see by the occupa-tion of the man next to him He is whittling a piece of carbon into the shape of a pipe bowl, and now he has it done to his ptpe bowl, and now he has it done to his satisfaction and is bollowing out the bowl. There's another man who seems to be forcing a hole through a piece of stick carbon, and looking a second time you see that's exactly what he is doing, and a second later you see him put it into a car-bon pipe bowl as a stem, fill the bowl with tobacco, light it up and commence to tobacco, light it up and commence to smoke Novel, isn't it? You don't think you'd like it? Of course not, but the men who work in carbon and who smoke out of carbon pipes say it makes one of the most delightfully cool smokes imaginable, and the material being so porous, absorbs all of the nicotine before it can possibly reach the mouth and system.—Globe Democrat.

Outdoor Sports in England.

Sport is the law and the prophet of Englishmen, and to confess to neither asure nor concern in the results of the day's racing shooting, hunting, angling, is to totally emancipate one's self from the amiable regard of a sport loving Briton. American indifference to the circumstance and event of sport is the contempt of the aristocracy and landed gentry. Sport is the autocrat. It controls society and makes an important chapter in literature. There is a universal devotion to the idea, alike from high and low. But it is the privilege of the great, the temptation of the poor. Poaching as an offense forms stereotyped matter for every well regulated English novel. The dress, the manners, the flirtations which make the maximum of life in country houses during autumnal revels are as important a factor in British society as the London season. Wives, mothers and daughters who have none of the tastes which give zest to the hunt are constrained to provide themselves with more gentle amusement dur ing that sanguinary period in the British It is not a fine taste-the love of hors

fiesh, cricketing deer stalking and the general desire of killing something It seems to take a place in the category with puglism and bull fighting But it de-velops brawn and a kind of rude mental strength and the cultivation of muscular vigor is something more valued than artis-tic sensibility in the Englishman's passion for an excess of animal force.—Cor. Philadelphia Times

Pleasures of Life at Honolulu.

This is truly a tropical land, the climate and temperature being somewhat marvel It is entirely different from California, or from anything I have yet seen. There is no winter there, yet it is never too hot and never cold. The temperature is between 70 degs. to 90 degs. all the year round, with a few extra showers of rain to emphasize the winter months. The fragrance is intense after a shower, for the Japanese lily, escenner, bananas and palm trees seem to distill perfume. Such fruits as cocoanuts, date palms, bananas, mangoes, oranges, bread truit, lemons, limes and sweet potatoes grow here in abundance. The principal productions. however, are sugar, rice and bahanas.

The intives are a strong race, have the bronze skin of the Chimeman and the black curly bair of the negro. They are an affable and affection to people, but are extremely lary, and renels profes the tinkle of their guy guillare to work. They threas very gandily, the women especially,-Edinburgh Ladies Journal.

DRUGGISTS Are You Protected?

CHEMICALS.

Toilet & Fancy Articles

In Eastern Oregon.

GIVE US A CALL.

Despain Block - Pendleton.

Grain Bags.

A Specialty.

AMES & DETRICK, 125 Front St. - PORTLAND, OR.

Eagle Hotel,

FRANK DOWNEY, Proprietor

Meals 25c; Beds 25 & 50c.

er Call and get a good meal at the corner of Webb and Garden -ts. jugdsw

SIGN OF THE GOLDEN BOOT.

A. HEALEY PRACTICAL

BOOT & SHOEMAKER

Main and Webb Streets.

Eastern Made Soots and Shoes in Stock.

Perfect fit Guaranteed.

uze lm daw

E. A. Walker,

Candies, Nuts, Fruits and Tobacco. Fine Imported and Domestic Cigars always in stock. Main St., near the bridge, Pendleton, Oregon

THE. . K. DAIRY.

Formerly run by John Knight, has changed hands, and is now leased by Who will supply both old and new customers with the

Pest Milk in the Market, promptly and at reasonable rates.

Estes & Guilds.

CITY LIVERY FEED & SALE STABLE.

Baled Hay and Crain. Spieudid Rigs, Single or Double, and saddle Horses siways on hand. Horses boarded by the day.

Week or Month.

All Kinds of Feed For Sale, in Small or Large tots, CHARGES NE SONABLE!

At Wholesale Prices.

Cascade Mills Lumber M'ig Co.

Yard and Office at the Railroad Depot. 1015 dsw 1m

Wasco Independent Academy. The Dalles, Oregon.

Special preparation for Universities in Oregon or Washington, for University of this ifernia. Harvard, Yale and others, or for business. Students not seeking collegiate education may graduate here in

Classical, Scientific or Normal COURSES. Best instruction in Elecution, Music and Art. Good describe and good moral one. Full equipments. Write for catalogue to R. H. WILLIS, A. M., Principal. 1y9 daw 1m

Those who believe so thoroughly in protection should not Emigrant Sleeping Cars real ting go any longer without insurance on their property, of whatsoever kind; and nearly everyone believes that a policy in a good,

Reliable Insurance Co.

Grain Bags.

Calcuttas and Detrick's Celebrated E. W.'s.

TWINES

OF All Kinds, Tents. Flags, Etc.

Is worth every time what it costs, and procrastination should not Detrick. June 17

State, June 17

Oregon, June 18

State, June 17

Oregon, June 21

Columbia, June 18

State, June 27

Oregon, June 21

Columbia, June 23

State, June 29

Oregon, June 21

Columbia, June 23

State, June 29

Oregon, June 21

Columbia, June 23

State, June 29

Oregon, June 21

Columbia, June 25

State, June 29

Oregon, June 20

Oregon, June 21

Columbia, June 25

State, June 29

Oregon, June 20

Columbia, June 25

State, June 29

Oregon, June 20

Columbia, June 25

State, June 29

Oregon, June 20

Columbia, June 25

State, June 29

Oregon, June 20

State, June 29

Oregon, June 20

Columbia, June 25

State, June 29

Oregon, June 20

Columbia, June 25

State, June 29

Oregon, June 20

State, June 20

Oregon, June 21

Columbia, June 25

State, June 20

Oregon, June 20

State, June 20

Oregon, June 21

Columbia, June 25

State, June 20

Oregon, June 21

Columbia, June 25

State, June 20

Oregon, June 21

Columbia, June 25

State, June 20

Oregon, June 21

Columbia, June 25

State, June 20

Oregon, June 21

Columbia, June 25

State, June 20

Oregon, June 21

Columbia, June 21

Columbia, June 21

Oregon, June 21

Columbia, June 21

Columbia, June 21

Oregon, June 21

Columbia, June 21

Columbia, June 21

Columbia, June 20

Oregon, June 21

Columbia, June 21

Oregon, June 21

Columbia, June 21

Colu be indulged in when it comes to taking out a policy. In the PRINTED FLOUR BAGS first place, pick out competent and

JUST OPENED! RELIABLE ACENTS.

With whom to do your business -- those who represent none but CREAT OVERLAND the best insurance companies-and go straightway and insure. When in search of such agents, don't fail to turn your "peepers' in the direction of the office of

Clopton & Jackson,

Located in the EAST OREGONIAN building, Pendleton, where you can have any kind of insurance, whether Fire, Marine, Accident or Life insurance, done up in

APPLE-PIE ORDER! Great Rock Is

It is well to remember that to be secure you must insure in one of the Thirty Reliable Companies represented by The Only Line Connected at Connect Bluffs, Leavenworth Clopton & Jackson, with a combined capital of more than

\$100,000,000!

If you contemplate insurance, call on them and get posted and it will cost you nothing. Remember their office is in the EAST OREGONIAN building, or address

Clopton & Jackson,

Pendleton. Oregon. COLUMBIA RIVER

Tickets To and from prose

Elegant Pullman Pale

OMAHA, COUNCIL BLUFFS AND

Free of charge and without

W. H. HOLCOMB. W. C. ALLOWAY.

THE Northern Pacific &

From Oregon and Washington to the East,

Pastest Time Eyer Made in Coast Over the Sorter Pacific Railrad To Sloux City, Council Bluft, & Atchison, Leavenworth, Six Burlington, Oulney, St. Long, M All points throughout the Eyet a cast via St. Paul and Minnespa

EMIGRANT SLEEPINGO Are hauled on regular express the entire length of the North Kallroad.

Leave Waliuis Junction 216a.a. Leave Portland 3 p. m., daily: Minneapolis or St. Paul 1220 p. fourth day. Connection made at St. Paul sal olls to all points East, South and

PACIFIC DIVISION. Train will leave Portland dist m., connecting with O. R. & N. O. all points on Puget Sound. A. B. CHAS General Western Passenger M Washington St., Portland. W. C. ALLOWAY, Pendien.

ALBERT LEA ROW The direct and popular line is with the Northern Parise from St. Paul and Minnespois To Chicago and the East

To Mt. Louis and the south To Den Moinen, Leaves

CHICAGO AND ALL POINT

Pullman Palace Storpin Palace Dining Carl Accompany all through Expres Tickets for sale by all connecting and connections made in using

Por full information regarding we etc., apply to any coupon age of & N. or Northern Facilie Raine panies, or to Ticket Agent, U. E. Pendienn. in

CHAS, KEYEDY, Ges. AF Washington St., - .

E. A. HOLBROOK.

Gen. Tkt. and Pass. Agt. C. S. J.

Chicago, Ili.

Gen. T. and P. Agt. N. J.

Minusapas

ACCIDENTS They do happen every day, and a happens to you, you will sid you were insured in the

TRAVELERS INSURANCE

Ten Millions of Assets. Two of Surplus. PAID POLICY HOLDERS, PURE