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NOTHING IS WASTED.

VALUE OF CAST-OFF THINGS IN INDUSTRIAL WORLD.

The Means of Utilizing Articles that Formerly Went to Waste, Provided by belence, Result in Great Profit-Some Things Worked Over.

Little is wasted in the industrial world. Men of science are ever at work tearing by-products and waste material to pieces, to regroup the elements into new material which has a commercial or industrial value.

Old iron is worked over into new iron. Linen rags are reincinerated and live as paper. Woolen rags are shredded and made into shoddy. Bones are made into bone black, to clarify sugar syrup. Old rubbers, bits of garden hose, exploded bicycle tires and any castoffs in which rubber is a part are made over into new rubber. Worn steel ralls are rerolled into lighter sections. Old rusty pipe is drawn down into bright new pipe. The tin cans which are gathered up in alleys and from garbage boxes are melted down and cast into window sash weights and counter weights for bridges.

Rags and old carpets are cut into strips and woven into handsome rugs. The list of old castoff things that are rescued from ash piles and garbage dumps to be born again can be extended for columns, and the list would never cease growing, for every day some new use for some wasted product is discovered.

There was a time when tons of blood, fresh from slaughtered cattle, flowed unheeded through the sewers under the stockyards in Chicago. To-day this blood is saved, put through several processes and comes out as a fertilizer or in the form of cakes, which are sent to sugar refineries to assist in clarifying the sweet liquor. Some of the handsome buttons worn on new dresses once ran as warm blood through the veins of fat steers.

Heat and hydraulic pressure are the agents which separate the water from the albumen in the red fluid, and prepare the dried blood for the pulverizing process which fits it for use as a fertilizer. After being boiled down, pressed. crushed and ground to a powder, the dried blood is mixed with potash and phosphoric acid and sent out as a complete fertilizer.

Shoddy is a useful product of waste material. It is never used alone, but in combination with new wools. The woolen rags from which shoddy is made are first thoroughly dusted by machinery before they are sorted. Any cotton which may be in the rags is got rid

Long experience has demonstrated the exact proportion of the acid required to ent out the cotton fibers without destroying the wool. The effect of lipping the rags into the water and acid is to rot the cotton so that the woolen part of the fabric falls to pieces easily. After being dried the rags are run through a machine that removes every bit of dust, leaving the pure, clean wool. The woolen rags and cloth are dyed, and then run through a machine whose thousands of steel pins not only shred the rags, but split the threads so that the rags which enter the machine leave it in the form of wool fibers.

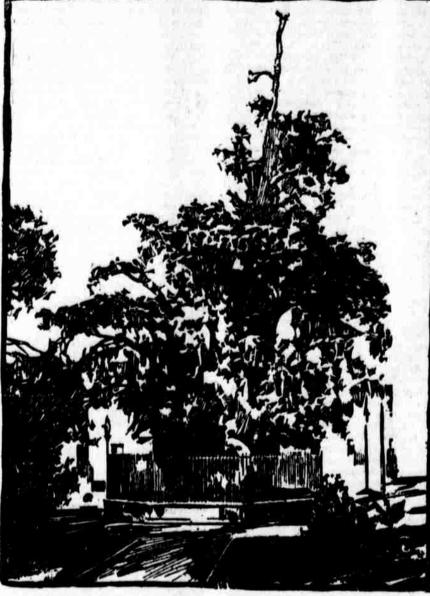
The wool is put through a carding machine, which ...oroughly combs out the woolen particles, mixes them and turns them out in the form of long fluffy rolls, which are packed in bales ready to be shipped to the woolen mills, where the shoddy is mixed with new wool.

While woolen rags are sent to the shoddy mills, linen rags naturally start from the ragman's storeroom to the paper mill, whence they issue as fine linen paper.

The "old iron" which forms half the burden of the ragman's song is the basis of a business whose output is valued annually in millions of dollars. Every piece of old fron, wrought or cast, rusty or clean, can be utilized. The old cast iron is sent to foundries and puddling furnaces, the old wrought fron, bars, sheets and plates, is sent to the rolling mills. Cast iron sent to foundries is remelted with pig iron, and begins a new life of usefulness under new forms and shapes. The wrought iron goes to the scrap piles in rolling mill yards.

A profitable business has been found in the redrawing of old iron pipe and boiler tubes. Most of this waste material is thickly covered with rust when is removed by the simple process of heating the old pipe to a cherry red and plunging it into water. The sudden the pipe is sent to the heating furnace clean and bright. A good welding heat prepares the pipe for the redrawing process. This consists in pulling the white hot pipe through a die, which not | Swiss hotel (see that label down in the only reduces its diameter but makes through a smaller die, and the process is continued until the pipe is down to the required diameter. Then the new pipe is straightened and is ready for

the market. It was not so many years ago that the coal tar which is produced in the manufacture of gas was regarded as a waste product, and something of a nulsance at that. But the chemists and liard and Pool Tables. Bowling experimentalists got hold of the stuff, Alleys and Supplies always on and their manipulation has made of it an exceedingly valuable by-product. This coal tar is a marvelous material. From it come beautiful dyes, sleepproducing powders, headache subduers, pain killers, fever coolers, germ de"TREE OF THE DISMAL NIGHT."



On June 30, 1520, Hernandes Cortes, Seeing with his troops from the City of Mexico along the old Aztec causeway of Tlacopan, passing the spot known to this day as "The Loop of Alvarado, (Pedro Alvarado, one of Cortes' captains having there saved his life by his agrilly), crossing numerous waterways, losing in his mad flight the priceless jewels and treasures of gold and silver confiscated from the natives, arrived about midnight at the village of Popotla, situated seven miles northwest of Mexico, where he hid at the foot of the giant cypress, the "Arbol de la Noche Triste" (tree of the dismal night), passing the hours in weeping. This tree is unquestionably the oldest living historical landmark on the American continent. Notwithstanding the march of civilization has changed materially all ancient conditions about the "Noche Triste," nearly 400 years having clapsed since that memorable night, we hear to-day the same tongue spoken, see the descendants of the same people passing to and fro in their picturesque garb or resting beenath the shade of its spreading branches, as did the great conqueror in those early days of conquest. Standing, grand, sublime, in its gnarled strength, the "Noche Triste" is an imposing historical object. Who can foretell the future races destined to avail themselves of its protecting arms; who write the history of their achievements on life's immortal scroll?

stroyers, and saccharin, the sweetest

The scores of chemicals obtained from coal tar are produced through a process of distillation which is almost perfection. For instance, when the tar. -has been drained off, is heated in a tank that serves as a still to a moderate temperature, say 105 degrees, benzine is produced. When 100 more degrees of temperature have been added. other light oils appear, and then comes a little higher temperature, and then comes anthracite oll, the "raw material" of many products.

Some of the well known drugs which are secured from the several distillations of coal tar are antipyrine, phenacetine, sulphonal, antifebrin and acetanilaid. Saccharin, which is almost 300 times sweeter than cane sugar, is a tar product.

Colors and dyes of every tint and hue are made from this one-time waste product, Aniline, one of the best known of the tar products, was discovered as far back as 1858, and when it was learned that from aniline beautiful colors could be made a new world of investigation was opened to chemists, and since then every color that can be produced by vegetable or animal matter has been made from coal tar.

TOURING BY LABELS.

Enterprising Philadelphian Covers "Luggage" with Proper Tags.

In Philadelphia an enterprising indiridual finds a brisk trade in furnishing labels for travelers' trunks and valises, so that when a piece of baggage is finally turned out of his shop its owner has apparently indisputable documentary evidence that he has toured the world or such part of it as may have seemed fit. The convenience of this glance, fits in very well with the American idea of saving time, while as for money it of course saves large lumps. Thus you can go out and hide in the country somewhere at \$5 a week until the proper time and then reach town in travel-stained clothes, coincident it arrives at the factory, and the rust with the arrival of some steamship. with a trunk pasted all over with inbels showing where you have been.

The trunks will be marked "Hotel" contraction loosens the rust scales, and and the smaller pieces of baggage-by this time you will be calling it "luggage"-will be marked "Cabin." And as you gaze on these labels you will of course become reminiscent of the little corner') where you met the Prince Soit solid. It is heated again and drawn and So; the P. and O. steamer, where you encountered the British nobleman who turned out to be a distant connection; the hotel in Egypt-see any guide book-where you met the swell American girl from Oshkosh, Wis., and so forth and so forth ad libitum, according to your imagination.

While cheap enough, however, this method of travel is not without some slight expense. The labels must be well paid for, because the labeler will tell you that all his wares are genuine and it is no easy thing to get such little pieces of printing from far-away ho- ry, if she likes; in a few years she will tels, railroad stations and steamboat care for none but that with a nursery offices, and you see at once that he is jingle, suitable to say for a "speech"

Indeed, if you have any of the so phistication that travel ought to give you, you will suspect that many of the labels offered you are made on the spot and you have an uncomfortable feeling in being pasted for an entire route after the tar water-strong in ammonia that some of the hotels named on the labels do not exist or that their locations may have got mixed in a way to confound you some time when you may be at the very best point in your reminiscences. This suspicion is rather increased, says the Philadelphia Times, the carbolic off from which carbolic by the curious fact that a tour of Cuba acid is made. Creosote is given off at cost more than a less popular tour of the same extent in E wonder if it is not because the Cuban

MEAT AND VEGETABLES.

Men Should Eat Greater Variety of

Let it not be assumed that the shortness of the meat supply and the high price of steak is an unmitigated evil. On the contrary, it is a probable blessing. If meat could be raised to a price that would make it prohibitory it might still be of good result, because it would teach those who depend entirely upon it to widen their dietary and learn to enjoy many good things of which they are now ignorant.

To many, especially in the cities, there are only three foods-meat, potatoes and bread. The weary monotony of this program, the unsatisfied longings for a widening of it, affect the appetite and surely affect spirits and temper. The laborer goes to his work filled with meat, potatoes and bread. At noon he finds cold meat and bread in his dinner pail and at night he is confronted by meat and potatoes, sometimes separate, sometimes combined into a greasy stew, sometimes chopped into hash. This kind of thing fills him, but in a finer sense it can hardly be said to feed him. Physicians have method of travel, it will be seen at a discovered that a builted and unchanging diet lowers vitality and health.

At such a time as this, there is a chance to find what things the world contains which are at least as digestible as beef. There is a wide range of sea food, farinaceous products can be served in a hundred forms, as well as bread, and as to vegetables, how seldom does the housekeeper give a trial to them.

A hearty and sustaining meal can be made from a vegetable soup, followed by potatoes, onlons, turnips, parsnips, egg plant, with two or three kinds of bread; then by asparagus, spinach or dandelion, afterward by a fresh and cooling salad, as of lettuce, cucumbers or tomatoes; then by cheese, pudding, fruit and coffee.

Meat eating is largely a habit, says the Brooklyn Eagle, and to some persons it is a habit acquired with difficulty. 'If to vegetables, fruit and constructions made of flour and sugar are added eggs, butter, cheese and milk, a range of diet becomes possible that makes one independent of animal food. It can do no harm to those who consider themselves the gainers in health, as well as in pocket.

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