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The Standard Oil Company indirectly controls about a dozen trusts, and is the strongest and best managed trust that ever existed, asserts the Chicago Sun.

It is estimated that the railroads of the United States lose \$2,000,000 yearly by land-slides, \$5,000,000 by floods, \$1,000,000 by fire and \$0,000,000 by collisions.

How far the idea of using electricity as a street-car moter has progressed can be judged from the fact that in a trade journal devoted exclusively to the street railways, one-third of the articles relate to electricity and its application to street roads.

Lovers of canned salmon should congratulate themselves, thinks the New York Mail and Express. In spite of the old idea that two good seasons for salmon are never consecutive, the run in British Columbia this year is equal to that of last year, when it was the best ever known.

"The transfer of Heligoland to Germany is creating au amount of talk and excitement that is much greater," says the Chicago Herald, "than the subject calls for. Every week some real estate dealer transfers a larger and more valuable tract right in the city limits of Chicago, and makes no noise about it at all."

The wealth of the United States is unofficially estimated at \$71,500,000,000, an increase in ten years of forty-two per cent. England's wealth was placed at \$51,000,000,000 in 1885, but divided nong a smaller population than that of he United States; while the value of ance's property is out at \$36,000,-000,000. Taxes in England average \$20 per capita and in the United States, \$12.50.

Policeman Henry Hennerman, of Louisville, took a nap on his front porch. While he was thus enjoying himself a thief came in at the front gate and stole the officer's hat. Such an outrage filled Policeman Hennerman with wrath He provided himself with a pistol and again sat down upon the porch, placing another hat u in chair near him. Muttering vengen- he pretended to be asleep. Sure + agh, he did fall asleep after a while ad the thief returned and carried off ti second hat and the pistol Mr. Hennerman is an ideal policeman, is the verdict of the facetious Chicago Herald.

The New York Herald says: A "railroad in the Holy Land" has rather a jarring sound. "Five minutes for refreshents at the Brook of Kedron," "Dinner the Valley of Jehosaphat," "Break-

the end. aut at Nazaroth " ATickota good for

TO HIM WHO WAITS. To him who waits amid the world's applaus His share of justice, toiling day by day, All things will come now dim and far away To him who waits.

To him who waits beyond the darkness drear The morning cometh with refuigent light; Bringing assurance of a day more bright;

To him who waits. To him who waits, though tears may often

fall. And knees be bowed in sorrow and prayer, All grief will end, and everything be fair

To him who waits, To him who waits and reaches out his hands To aid a toiler up life's bestling crags, Surcease will come from every ill that flags

To him who waits, To him who waits, and struggles not in vair To overcome the evils that abound Within his breast, sweet will the victory

sound To him who waits,

To him who waits, there comes a wily

throng. Who sneer and scoff, and look with baleful

eves. But what of them? They are but guats and

flics, To him who waits.

To him who waits, there must be recompen-For useful work, whatever may betide, A compensation reaching far and wide, To him who waits.

To him who waits the stars are always friends, The restless ocean, and the azure sky,

All things in nature speak and prophesy, To him who waits. To him who waits true love, will some day

come, And lay an offering at his blameless shrine, Life will be love, and love will be divine,

To him who waits.

To him who waits the world will some day cheer. And sing his praise; Fame's mysterious gates

Will open for him; heaven seem more near, To him who waits. -Moses G. Shirley, in Boston Globe.

DICK RODNEY'S REVENCE.

"Lord, let me have a chance to be revenged at last !" That was what Dick Rodney said as he

turned from the door of the sweetheart he had been thinking of during all the long voyage just ended, with the news that she was married to another burning Betsy Belle. Then, in the worst of the in his heart like a red hot iron. She was a light, foolish thing, not

worthy of a true man's love. But he had worshiped her, and she had

seek sympathy for. Dick went back to sea a moodier man than he had been, and now and then he

would say to some mate: "There's a fellow I'm bound to be even

with some day." But he never said why. He felt himself bitterly and shameful-

ing, pretending to be very busy with it, Ralph talked on, and Dick felt sure that Effice and her husband were not happy was gone: ogether. So much revenge he had al ready! The thought cooled him more

than any other could have done. Later in the day he found himself say ing that a man might well leave one who had wronged him to the justice of Heaven. That sooner or later he would find himself satisfied.

Among other things Ralph had said that: "Trouble and worry and short victuals

had altered his wife from a pretty girl to a mighty plain woman." The words clung to Dick's mind-he could not forget them. He wondered if it were so. After this he saw very little of Ralph. It was in his power, being much the stronger of the two, to take

advantage of any watch that they might keep together to throw him overboard, but the miserable life did not seem worth taking. The once prosperous young fellow was sick, hopeless, and forlorn;

and one night, as Ralph panted over a hard task, to which he was not equal, Dick, yielding to some queer influence that came upon him, asked the Captain

to let him take his place, change with him. "My work is easier done by a man

short of breath," he said. "Do as you please," the Captain re-lied, gruffly. "That's a stupid lubber, plied, gruffly. anyhow. Sick fellows should stay a-

shore." Dick said: "Thank ye." And performed Ralph's task. The poor fellow was grateful, and told

the story of Dick's kind deed to every "When that asthina comes on me I'm o good," he said. "He saved my life

night." "I'm a fool!" Dick said to himself, but e continued to be one. Instead of makng the poor, sick fellow's lot harder, he

lped him in a thousand ways; and the example being set, it got to be the fashion to spare Ralph, to speak of him as "That poor chap!" and favor him in very way.

"Here's a fool for you," said Dick, as he looked in his queer little round glass of a morning. "As big a fool as sails." The voyage was not a lucky one. The Captain's ventures were not successful. He solaced himself with drink, and lay tipsy in his berth on the night when a storm, such as few live to tell of, broke

over them. For two awful days the wind and water did what they choose with the tempest, they took to the boats. As Dick, having helped to drag the tipsy Captain into one, was about to take his own place, a forlorn figure stretched out

jilted him and married Ralph Holloway. its arms to him. In dumb show, for It was not a tale to tell, a sorrow to words could not be heard, it indicated it had hurt itself, and needed help to gain the boat.

"Don't leave me," its hollow eyessaid; give me a chance. The miserable thing was Ralph-Hollo-

way, covered with blood, faint with pain and horror. Revenge, why, here it was offered to

ly injured, and he felt sure that God Dick. He could cast away those clingwould cast his enemy into his hands in ing hands, jump into the boat, and leave o man who had stolen his sweetheart

As he bent over a rope he was splic- in a mad struggle went overboard. An- | THE TESTING OF SUGAR. other, quite insane, fancled he saw a feast spread near him, sprang toward it, and ESTIMATING SUGAR DUTIES IN

TIONESTA, PA., WEDNESDAY, OCT. 1, 1890.

Others slept and awakened no more: And now Dick and Ralph were alone in the boat.

"I shall never see Effic again," said Ralph. "Dick, good friend, if in my life I've ever done any harm that made any one want revenge on me, they have Oh! for just a it when I think that.

look at her or a word from her." Dick bent over him and looked in his

"Did you ever feel as if any one vanted revenge on you?" he asked. "I ain't aware of any cause for it," said Ralph. "But I've been as unlucky as if I was cursed since the day I married

Effle. are most familiar with, is cane sugar. To "Lord bless you, Ralph," said Dick. it, therefore, we may devote our princi-'And if there is a curse may it be pal attention. lifted."

And as he spoke he raised his eyes and aw, where the water and the heavens met, a sail.

. "Td never have seen you again, Effie, but for this good friend," Ralph said. "He saved my life more than once." Effie had come to him in the hospital,

where he was getting well, and found Dick at his side. "God bless him," said Effie. "I think

he's one of those that would do good to folk that harmed him, and knew it was the best revenge he could have." "He's good enough for that," Ralph

said, then Effic held out her hand to Dick

"God bless you," she said. "My children will pray for you every night for saving their father. And may you find a good, sweet wife, for you will

make her a happy woman. She sighed, but there was a peaceful look upon Dick's face as he said "Goodbye," and left them forever. But Effie's hope was fulfilled, and happy love came

to him before many days .- Family Story Paper.

A Born Courtier.

During a stay of Emperor William I., of Germany, at the fashionable watering place at Ems that monarch paid a visit to a large orphan asylum and school that was under Government patronage. The presence of so distinguished a personage created quite a sensation in the establishment. After listening with much inter-est to the recitations of several of the classes, His Majosty called to him a bright, flaxen-haired little girl of five or

six years of age, and, lifting her into his lap, said: "Now, my little fraulein, let me see how well you have been taught. To

what kingdom does this belong?" And taking out of his pocket an orange, he held it up to her. The little girl hesitated a moment,

and, looking timidly up into the Emperor's face, replied : "To the vegetable kingdom."

"Very good, my little fraulein; and ow to what kingdom does this belong?' And he drew out of his pocket a gold piece and placed it on the orange. Again the little girl hesitated, but

soon replied : "To the mineral kingdom."

said the Er "Better and better," "Now look at me and say to me to TOT: what kingdom I belong."

\$1.50 PER ANNUM. SCIENTIFIC AND INDUSTRIAL.

> Fireproof paper is now being manufactured.

> prindstones is reported nine miles from Grant's Pass, Oregou.

There are many varieties of sugar, for the term is used generically to designate the sweet products obtained from certain vegetables and most fruits. Thus we have the case sugar, from sugar case; and its colors are formed by oxides of beet sugar, grape sugar, maple sugar, melon sugar, palm sugar, date sugar, sor-

ghum sugar, maize sugar and others less The one, however, which is of the fessor Braun, of Tubingen, that he can greatest importance, and whose use we

cal work, and he is now at work on the construction of a practical generator on

The sugar which comes to New York principally exported from Cuba. naller quantities are received from other of the West Indian islands and Brazil. In still smaller amounts sugars are sent to this country from China and some of

the islands of the Pacific. The origin of the sugar having been ascertained, it is but natural that we should expect to see it along the docks of our river front.

UNCLE SAM'S LABORATORY.

The Different Kinds of Sugar and the

Ingenious Process.

ommonly known.

Method of Analyzing Them-Au

The incidents of its journey can be of no interest to us. In the dark hold of some vessel, probaby a sailing ship, as the days quickly follow the nights, in storm or in calm, the sugar remains in its package, unconscious alike of the anxiety of the seamen or of the tedious monotony which makes an ordinary sea royage so hard to be endured. At the wharf, as each packages comes ashore, it is marked by the Government inspector chosen for this special duty.

Every fourth hogshead or barrel is laid uside, and when the packages are smaller, such as bags, ceroons or mats, more fre quent parcels are selected for sampling. Then a long tube, called a trier, is run lirectly through the central portion, from and to end, of eack package selected. Every trierful constitutes an entire sam-The sugar thus extracted is packed ple. in small tin boxes; these again are placed in wooden chests, and are sent to the examination room as rapidly as possible. The utmost dispatch throughout the entire course, beginning with the sampling and ending with the polarization, is insisted on in order to avoid the drying out of the water or moisture contained in the sugar; otherwise a higher degree of polarization, and in consequence a higher rate of duty, would follow. As the importers generally examine the sugar in their own laboratories, every precaution is taken by the Government to obtain correct results.

In the examination room, the sugar is thrown on the flat surface of a long table and thoroughly mixed, so that any selection from it will represent a fair average of the entire invoice. Then an examination of the color is made by comparing a sample with the so-called "Dutch Stand-This latter consists of a series of ard. sealed bottles containing sugars whose value in crystallizable sugar has previously been determined, the lighter colors naturally representing the purer qualities. If the sample is not above No. 13 in olor, it is again nacked in a tin box, a

Magnetism is now proposed for over-Smiled through noon's sheen of sunbright oming scale in boilers. A mountain of sandstone suitable for

At Deer Island, in Columbia County, regon,a vein of sand stone, estimated t be 200 feet in depth, has been discovered. Mexican onyx is a form of stalagmite,

metals in the earth over the caves through which calcareous water passes. A claim has now been made by Pro-

produce electricity direct from mechani-

this principle. The rapidity with which flies pass

through the air is not likely to be appreciated by those who see only with what apparent ease they do it. will keep up with a fast horse, and that, too, without lighting on him.

A report comes from the West of the discovery of a process by which iron ore can be so softened by the concentrated ays of an arc light as to be worked with comparatively small amount of labor. If this discovery is confirmed, it may lead to a considerable modification of

the present modes of treating ores. Professor Boys, in a communication to the Royal Society, England, on measurements of the heat of the moon and stars by means of his radiomicrometer, gives in account of a test with a candle at 250.7 yards distance, which gave a de-flection of thirty-eight milimeters. In

other words, this instrument would show the heat of a candle at 1.71 miles distance. The most important occurrence at the international medical congress in Berlin was the reading of a paper by Dr. Koch, the famous practitioner and investigator, an the tuberculosis bacillus, which he claims is the cause of pulmonary con sumption. He announced that he has discovered a substitute which is capable of killing the bacillus and curing the disease. Some years ago Plateau made experinents which showed that eyeless myrionods can distinguish between daylight

> and darkness, their skin being sensative to light. Eycless maggots are also sensitive to light. M. Raphael Dubois has recently studied the perception of luminous radiations by the skin, as exemplified by the blind Proteus of the grottoes of Carniola. By a number of experiments upon this animal, which is a salamander with persistent gills, Dubois demonstrates that the sensibility of its skin to light is about half of the sensibility of its rudimentary eyes, and further that this

> > light.

sensibility varies with the color of the

light employed, being greatest for yellow

Likes the Sting of the Bee.

Some obsticate men will say "No.

thank you," to the most disinterested

O'Neill, of Lincoln, as he tells us in this

week's Lancet, has a friend who endures

O'Neill, that after a few repetitions the

sting of the wasp might cease in hun to

produce its stinging effects. So he has suggested to his friend that "for

the sake of science he should take the

matter up and thoroughly investigate it.

in order that he might discover whether

he could not also fortify himself against

the pain caused by the sting of the wasp.

This, says the doctor, with whose disap-

pointment the public will no doubt sym

athize, the friend "declined to do, his

thirst for science not being sufficiently

great to induce him to have any further

ntercourse with the wasp if he could

Hereditary Longevity.

Queen Victoria, en the occasion of the opening of the Southampton Docks

conferred the honor of knighthood on

the Chairman of the Dock Company

Steuart Macnaghten, and public refer-

ence to his ancestry, has developed a

curious case of hereditary longevity.

The new Knight is seventy-five years

old, and his grandfather was born in the

reign of Charles II. To make the aston-

ishing fact seem more incredible, thi

boy, born in 1679, was the notalna

Colonel of a regiment at the Battle of

the Boyne, nine years later. He married

at the age of eighty two, and the father

of Sir Steuart was the youngest son o

this extraordinary marriage. The grand father himself lived to be 102 and the

father eighty-one. Under these auspices

nobody dares to imagine what limits Sir

Steuart, who is strikingly hale and well-

preserved man, does not propose to him-

Fabricated "Old Metal Work."

Since the rage for the present style of

domestic architecture set in, uncient metal work for use in house building has

been in demand. In the days of old the

blacksmith and the brassworker used to

make wonderfully beautiful work for the

great people whose sumptuous homes were adorned with every luxury. Win-

dow gratings, lauterus, fences, balconies,

balustrades, even furniture, were fabri

cated of metal in the most artistic fash

ion. Most of these relics of the past

are now owned by different museums or

private collectors, but many of them

self .- New York Times.

help it."-London News.

He now, however, believes him

propositions for their welfare.

either Mount Zion or Mount Moriah." We presume these will soon be added to the cases now familiar to pilgrims over the ca. However, we shall in time be accustomed to it, and the railroad will no more detract from the feeling of reverence with which we surround the Holy Land than from the memories that belong to the poetry and traditions of Egypt, Rome and the Isles of Greece.

From statistics produced in a valuable pamphlet by William Little it appears that the amount of timber converted into lumber in Michigan, Wisconsin and Minnesota last year reached the enormous aggregate of 8,305,833,277 superficial feet, exclusive of white pine shingles, which, if added, would bring the total consumption up to 9,000,000,-000 feet. Ruthless slaughter of that order not even the matchless and unlimited forests discovered by Mr. Stanley in Africa could long survive. As a matter of fact the timberlands of the west are already practically ex-Of 29,000,000,000 feet reted by the census of 1880 as then standing in lower Michigan only one tenth now remains; and in the three-States there is estimated to be less than

10,000,000,000 feet.

hand.

pocket.

friends

place.

pretty bad luck."

Ralph Holloway, of your own town.

A clergyman writes as follows in the Chicago Advance: "Clorical hospitality is declining. The minister's house is no longer the stopping place of all ministers who pass his way. Possibly the change to both host and guest is in some respects desirable, yet in other respects it is undesirable. The virtue of hospitality may sometimes be a hard drain upon the narrow larder of the parsonage, but it * does tend to promote that hearty fellowship which ministers need and which they are glad to give and receive. Every one in Massachusetts knows the Rev. Daniel Butler, the agent of the Massachusetts Bible Society, a man with such a reputation for wit that it must indeed be no small strain even for one who has so much ability to sustain the reputation. Mr. Butler tells me that fifty years ago there was hardly a parsonage in Massachusetts that he would not feel free to enter as an uninvited guest, but that now there is hardly a parsonage into which he would feel free to go without a special invitation. I confess that I rather mourn the and days of clerical hospitality."

It seemed to him that it was not neces- to his wretched death. He could look sary for him to seek it, but only to bide back as he left the ship, and see him in his time. his misery stretching out imploring hands

Five years passed, and still he said toward him. Yes, he could. "I wait." And one morning he looked did was to take the miscrable being on up and saw Ralph Holloway standing ophis back, and risk his life to tumble him posite him, and said to himself: into the boat.

"The time is coming." "She's too full already," yelled one It had been very hard for Captain man—"too full by a hanged sight!" Palmer to find hands for that voyage, "It's the sick one, mates!" roared The Betsy Belle had met with many dis-Dick. And when there was calm enough asters and was counted unlucky. And he tore his own garments to bind Hollothe Captain was not liked. way's wounds.

The crew was a rough one when it was Storms do not last forever, but when made up, but here was Ralph Holloway the gale subsided and the scorching sun coming to add himself to it. It was a shone down, and they tossed about, curious fact, and one of which Dick knowing that the time must come when Rodney was not aware, that Ralph had biscuit-bag and water-keg and brandy never known anything of Effic's engageflask must be empty-then came ment to him. He had come home from worst horror of all. They doled the bisa voyage, met a pretty girl at a party, cuit out by crumbs, the water by drops, spent his money in giving her presents, but even so it would not last forever. "Dick, good friend," said Ralph one and offered himself.

He was a handsomer man than Dick, day, "all I pray for is to live and see and being less prudent, seemed more Effie, and ask her pardon for anything generous. Effic accepted him, and left I've done wrong, She liked me, though it to her mother to tell Dick the news on she was touchy. She'll grieve if I leave his return, quite conscience free. Ralph her a widow, poor girll' walked up to Dick, holding out his For awhile Dick sat silent and said

othing. It was the day on which they "I've seen you before," he said. divided the last of the food. "You've forgotten me, I guess. I'm Two days after a man arose in the boat with a knife in his hand.

"Oh, I know you well enough." said Dick, without taking his hand. "I won't starve for one," he said. "One of us has got to go to save the Odd ways are not uncommon amongst est; you're the one.

He pointed straight at Ralph; there sailors. Ralph said to himself that Dick was crusty, and put his hand away in his was frenzy in his eye. The others hauled him down. As yet

"I shouldn't wonder if you didn't they were not mad enough to join in a know me," he said. "I'm run down and cannibal feast. But starvation was domighty low in pocket, or I wouldn't have ing its work.

Dick kept stronger and clearer in mind shipped with Captain Palmer. I've had than the rest. He watched the man who "Have you?" said Dick. "And yet had wielded the knife. In the night he they say Old Nick never deserts his saw him creeping toward Ralph. blow sent him sprawling; his comrades

"I ain't made friends with him as I were aroused. knows of," said Ralph. "About the tame I married, I got a bit of money from grandfather, and bought a house and "Why not?" they began to whisper. "They will kill me yet," moaned Ralph. "Effic will go crazy if she hears

put my wife into it. We had a couple the story." of babies, and things seemed going on Revenge! Why, it was offered to first rate. Then I went on an unlucky Dick in overflowing measure. And he put his strong, stout body between the voyage, was shipwrecked, came home sick, and lay idle six months. I let my miserable Ralph and those others and

insurance run out-cause why! I couldn't cried out : pay it—and that week my home was burned down by a tramp I'd driv off the "Mates, we won't starve yet; I've kept omething to the last. I've got a flask One of the children was hadly of whisky and six biscuits in my pocket. urned-scarred for life-and the cow I kept them for the last moment, share Then, you and share alike.' was roasted to a cinder.

know, wom'n folk ain't got much cour-The eager eyes turned on himage, and Effic, that's my wife, kind of allowed Dick to portion out the food. It came down on me for my hard luck; and was very little, but it meant that they so, though I'm a sick man yet, I shipped would not starve that day. And each time they drank from the flash, Dick for-I don't feel encouraged-I feel bade himself half his own portion and as if there was worse shead of me.' "Perhaps there is," said Dick to himgave a larger allowance to Ralph; so

self, feeling a fiendish delight in the with the biscuit also. thought that he would have Effic's hus-Alas! when these were gone there was scare him into submission, as the band in his power on the high seas, with nothing more. Again fiends' eyes glared at Ralph. At

only a plank between him and death. He had not sought him out, he had come to him. There was fate in it.

At this question there was an ominous What he silencemmong the teachers and visitors who were listening with much interest to the royal catechism. Could she make any other reply that "to the animal kingdom?" The little girl hesitated long, as if perplexed as to what answer would give. Was the Emperor an she animal? Her eyes sought those of her teacher and her schoolmates. Then she looked up into the eyes of the aged Em-

peror, and, with a half-startled, frightened look, as if she were evading the question, replied :

"To the kingdom of heaven."

Duels of German Students.

The usual length of the duel among the Gorman students is ten minutes for freshmen and a quarter of an hour for seniors, unless an artery is cut. Then the fight comes to an end at once, if the doctor judges the wound to be sufficiently serious, and the party who inflicts the ound is the victor. After the wounds have been dressed a reconciliation is effected; the former enemies leave the place friends. Indeed, the ducis are not often the outcome of personal animosity The superfluous energy which in England and America is worked off in outdoor sports, in rowing, cricket or baseball, here finds its only outlet in the dual. If these ducls were always harmless one could dismiss them with a laugh, as only one other form of the inevitable and even enviable folly of youth. But unfortunately there is another side to the picture. Sometimes the duel is the result of a deep and deadly hatred, and then it is fought out even to the death. The comparatively harmless schlager is discarded, and in its place the pistol or the saber is substituted. No silly child's

play here, but grim and wicked carnest. -Illustrated American.

- A

Electricity in the Lion's Den.

The latest application of electricity will be a boon to wild-beast tamers, lion kings, serpent queens, and such like. Instead of having to assert their authority by means of the whip of plant steel, which has hitherto been their chief resource, except in those desperate straits in which red-hot irons come into action, they will now carry a light wand. with an insulating grip for the hand, connected by a flexible wire, with a bat

tery of which the power can be varied according to the necessities of the case. If the lion or tiger becomes surly and refuses to go through his tricks, or threatens to bite, a sample of his "tamer," a touch of the magic wand, will give him a shock that will rouse him up or

former wishes. An experiment in this new departure of applied science is said last two cast back from their attack on to have been successfully made in one hun by Dick, clutched each other, and !instance .- London Vanity Fair.

duplicate of which is retained in the examination room properly numbered, keeps bees for pleasure, and the bees, for and then it is sent to the laboratory.

their pleasure or otherwise, often sting We may say in this connection that him. about ten experienced chemists are conself sting-proof. The tiny wound that stantly employed testing sugar at the Apused to produce severe pain in former praiser's Stores in New York, and also, days causes now "only a little pleasurable nore than this, that each of the large sensation." He is still unfortified against ports of the country-Boston, Philadelthe wasp. Stung by one of those forphia, New Orleans, San Francisco and midable insects a short time ago, Dr. others-have their laboratories where O'Neill's friend had sufforings acute and men are kept busy at this work. prolonged. But it might be, says Dr.

The first operation that the sugar undergoes is that of crushing and mixing in a mortar. This step is considered necessary in order to remove any lumps or inequalities that may have been overlooked in the examination room, and to make the mass more thoroughly homogeneous. Then a suitable portion is weighed out, the amount depending upon the kind of polariscope employed. In the United States laboratories the Scheibler modification of the polariscope is used, and 13,024 grains of substance is the quantity taken for examination.

The weighed sugar is carefully washed into a graduated flask holding exactly fifty cubic centimeters, brought into a olution by agitation, a slight quantity of lead acetate or sugar of lead is added. and the mixture is filtered. The lead

salt is used for the purpose of partially decolorizing the compound. The yellow solution thus obtained is poured into the polariscope tube and an examination or reading is made. All sugars possess the peculiar power of twisting or rotating a ray of polarized light, either to the right or left. Thus caue sugar has a polarization to the right of 73 deg. 8 min., grape sugar to the right 57 deg. 4 min. Fruit sugar to the left 106 deg., and so on. This charac-teristic property of sugars is made use of, and an instrument has been so constructed that a ray of light entering the apparatus becomes polarized, then pass-ing through the tube containing the saccharine solution is rotated in a definite direction, and by means of suitable adustment this degree or amount of rotation is shown on a readable scale attached to the instrument. The reading of the vernier, as the scale is called, completes the examination; in other words, the result obtained tells us exactly how much pure crystallizable cane sugar is contained

in the sample. The percentage of pure sugar is transmitted to the appraisor, who then adjusts the amount of duty to be paid, in accordance with the returns re-

timation that the annual sale scarcely exceeds \$20,000. The works receive a yearly subsidy of \$100,000, but the quality of the wares produced has dete-

The deposits in the British Postoffice Savings Bank last year amounted to \$99,070,000, and the withdrawals to \$84,070,000.

there, and don't you forget it, makes more noise about it than the man who is the sting of the honey bee without flinch actually there .- Atchison Globe. ing. In fact, he rather likes it. He

RATES OF ADVERTISING.

Legal advertisements ten cents per lius each in-

All bills for yearly advertisements collected quan-terly. Temporary advertisements must be paid its advance.

WHEN DAY IS DONE.

When day is done and down the steep

Of rose-hued sky the shadows creep,

And wrap the drowsy folds in sleep-

Then does a solemn essence sweep

Athwart the soul and vigil keep,

As faithful mourners keel in prayer,

When day is done.

In that strange hush, dear God, we weep

The scattering grain, the wealth of tare,

That meets our hand. In weak despair

We seek thy throne, as wayworn sheep,

When day is done.

HUMOR OF THE DAY.

Always takes the house by storm-the

The crow doesn't fly from a corufield

A church bell, like truth, should not

Conscience is that within us that tells

Naturally a fellow is quite upset if his

The expert manicure generally has con-

Druggists, however prosperous, always

do business on a small scale.-Laurence

The busy little bee works by the job,

His Mother-"What are you doing out

Life is full of compensations. When

"Oh, I wish I'd been a man," cried

Good advice is worth more than money.

"It fills the bill," remarked the bau-

tam pullet when she picked up a large and juicy grasshopper. - Washington

"Why, Adolphus, what is the matter?

When the butler begins to brag of his

"I guess I'm a Jouah," remarked the

small boy who had been punished. "It

seems to be my luck to get whaled right

"No; I can't say that I want the carth," mused the freight car tourist.

About three-quarters of it is water, and

The man who says he is going to get

Why do you tremble so?" "My best girl just 'shook' me."-Binghamton Re-

honesty it is time to fall ou his neck-

and feel for the spoons in his cont-tail

but Jones says that somehow he cannot

make his creditors see it in that light.

Mrs. Bjonson. "I wish to heaven you had!" retorted Mr. Bjonson. - Epseh.

the husband is out all night the lamp is

but he does just as good work as if he

there in the rain?" The Terror-"Got-

siderable" "work on hand."- Fonkers

us when our neighbors are doing wrong.

best girl throws him over .- Detroit Free

Have the floor-Rugs.

eyclone.

Gazette.

American.

and

Star.

Dr.

publican.

pocket .- Epoch.

along."- Washington Post.

that I ain't got no use for."

labored by the day.

tin' wet."-Atlanta Journal.

not. - Terre Haute Express.

without caws.

be tolled at all times.

Flies

Pie-rates-Ten cents a slice.

-Josephine Paett Spoonts.

Our shattered hopes and blindly reap

To nestle where the valley fair

air.

Marriages and death notices gratis.

Job work-cash on delivery.

One Square, one inch, one month

Why is it that a woman, When she becomes niother-in-law, Though she may have been sweet as sugar, At once learns to jabber and jaw?

-Lawrence American. Teacher (to class)-""In this stanza what is meant by the line, 'The shades of night were falling fast'?" Bright Scholar-"The people were pulling down the blinds."

Bachelor-''Ned, how would you define a love letter?" Benedict-4A love etter is a thing that ien years afterward you generally wish you hadn't written." Somerville Journal.

"I don't believe in allowing domestics to get the upper hand. I make my serv-ant keep her place." "You are lucky. Ours never does for more than three wheeks."-American Grocer.

"You are not the young lady to whom give lessons,"said the plano-teacher. No; the young lady to whom you give essons is sick, and she sent me to practice for her."-Boston Courier.

Tippit-"Look at that tramp going He's a corker, ch?" Wagwell Judging from that ruby on his frontispiece I should say he was more inclined to be an un-corker."-Gazette.

THE GAME OF LIFE. Existence is honey and cake to a few, But with most of us life is a scuttle, And ere with the game we are finally

through. Though do our keen best to be brought

into view, We find we are lost in the shuffle

-Chicago Pos. A body servant, newly engaged, presented to his master a pair of boots, the leg of one of which was much longer han the other. "How comes it, Patrick, that these boots are not of the same length?" "I raly don't know, sir; but what bothers me most is that the pair downstairs are in the same fix."- White

Coagulating Rubber-Milk.

Mountain Echo.

By a new process, the rubber in the milk collected from the India rubber trees, is now congulated instantaneously. The operation is so simple that any native. can carry it out at the foot of the tree which he has been bleeding, and thus, instead of carrying large cans of milk of great weight, and entailing great loss on the way, he simply carries in the sack solid rubber, which, on his arrival at camp, can at once be prepared for the market and shipped -New York Dispatch.

An Ivory Knee Joint.

Professor Gluck, of London, recently serformed a remarkable and successful operation. He removed from one of his nale patients a diseased knee joint and userted an artificial substitute made from ivory. The patient has now left his bed. He walks with perfect case and says that his ivory knee joint is convenient and comfortable in every way .- Pittsburg Dispatch.

ielved from the laboratory .- New York Star. Sevres ware has so failen in public ca-

riorated.

have been photographed, and from these representations what are sold for genuine originals are made and sold at high prices .- New York News