The San Francisco glistoned in the sun. The cars were filling rapidly. From my post I could hear the people talking-bidding each other good-bye, and promising to write an l come again Amonget them was an orr gentleman I knew by sight-one of the shereholders. He was bidding two timid girls

"Good-bye, Kitty; good-bye, Luc." hear.' him say; don't be so nervous. The Sun Francisco is the safest engine on the line, and Guelden the most exceful engineer; I would not be afraid to trust every mortal to their keeping Nothing could happen wrong with the two together."

I said, "We'll get through somehow, and Joo shall never talk to me again. After all, it was easy enough." I reclod as I spoke. I heard the signal. We are off.

Five hours from L. to D.; five hours back

again. I knew now that on the last run [should be myself again. I saw a flatter and nover knew what it was until we had passed a train at the wrong pl ce. Two mi ates more and we should have had a collision. Somebody told me, and I laughed. I heard the share--holder say respectfully;

"Of course, Mr. Guelden, you know what you are about ?"

Then I was alone and wondering whether I should go taster or slower. I did something, and the cars rushed on at a fearful rate. The same man who had spoken to me before was standing near me. I heard the question :

"How many miles an hour are we making ?"

I didn't know.

Rattle, rattle, rattle ! I was trying to slackon the speed of the San Francisco. I could not remember what I should do-was it this or that-faster or slower? I was playing with the engine like a child

Sidde by there was a horrible roar-a crash. I was flung somewhere. It was in the water. By a miracle I was sobered, not hurt. I g ined the shore. I stood up in the ground between the track and the waters elge and there gazed at my work.

The engines was in fragments, the cars in splinters; deal and dying and wounded were strewed around-men and women and children, old age and youth. The c were groans and shricks of despair. The manned cried out in pain; the uninjured walls; their dead, and a voice unheard in any other, was in my car, whispering "murder!"

The news had gone to A., and people came thronging down to find their lost one. Sparching for an old min's daughter, I' came to a place under the trees, and found five bolics lying there in all their rigid horror-an old weman, a young one, baby, and two tiny children. Was it fancy-was it pure fancy, born of my anguish-they look like -oh, beaven! they are my mother, my wife, my children-cold and deal.

How did they some on the train? What means had brought this about? No one could | ed her sway even to the worthless dust heapanswer. I ground, I sere one !, I clasped my and from the filthy waste brings out the shinhands, I toru my hair, I gazel on the god face of her who gave me bir h, on the levely, cold face of my wife, on my innocent calldren. I called the a by name; there was no answer. There never would be-there never could be.

A whistle! Great God! Onward up the track thumlered another train! It's red eyes glared up n me; I threw myself before it; I felt it crush me to atoms !

"His head is extremely hot," said somebody. I op ned my eyes and saw my wife.

I was so rejuiced and astonished by the sight of her that I could not sp.ak at first. Sho repeated the question.

pain."

my wife.

the matter with me. I was in my own room; the purpose of imbodding the newly made opposite to me was a crib in which my child bricks into compact squares. The coal sust was asleep. My wife and child were safe. Was having been fired, the mass, burns with slow I delirious, or what could it be?

"Jue," I cried, "sell me what has hap-

pened." home in such a state from the club that I with the utmost rapidity: boncs, rags, paper. couldn't wake you. You weren't fit to manage old iron, glass, and broken crockery, and even steam and risk p ople's lives. The San Fran- bread, as they are eliminated from the mass cisco is half way to A. I suppose, and you've being piled in separate heaps. The bones are been frightening me half to death with your | put to a score of different uses. Of the several

dreadful talk," And Joe began to cry.

It was only a dream; only an awful dream. But I had lived through it though it were a reality.

"Is there a Bible in the house, Joe!" I

" Are we heathens?" cried Joc.

"Give it to me this moment, Joe." She brought it, and I put my hand on it and

took the onth (the solemn to be repeated here), that what had happened should never occur after many changes, as a tothpick or toothagain. And if the San Francisco ever comes to grief, the verdict will not be: "The engineer was drunk." .

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SCIENTIFIC.

PRISMOIDAL RAILWAY.

Messrs. Lafferty Bros, of Gloucester City, N.J., have 1 stely constructed a four tun 1 comotive on the above named novel plan, which is thus described in the Philadelphia Ledger:

It is built for a street railroad company in Georgia. This engine can with propriety be called a velocipedo, as it rests upon two wheels, one following the other. The rail or track upon which it is to run, a sample of which is laid in the yard of the builders, is styled a "Prismoid, or one track railway." and is composed of several thicknesses of plank, built up in the style of an invested keel of a vessel, with a flat rail on the apex. Upon a trial of speed, about 12 miles an hour was attained, and the inventor and pat ntee chims that the speed can be almost doubled on a long hened

Mr. E. Crew, of Opelika, Ga., is the inventor and patentes of both tracks and engines, and he claims that his inventious demonstrate a tractive power superior to anything in the locomotive line of equal weight. The capacity for running on curves is very much greater than the two rait system. The track upon which the trial was made contained 36 feet of lumber an 18 pounds of iron to the lineal foot, proving itself equal to a span of 20 feet, remaining firm and unyielding under the pressure of the engine as it traversed the road. T e revolving flanges attached to the eagine, and which run on the outside of each wheel, Mr. Crow claims, absolutely lock the rolling stock to the prism, and obviate the n cess ty of so much h avy rolling stock in light traffic at a high rate of speed. It is also claimed 'that a prismoidal railway built with a base of 14 inches and angles of 45° can be built at a cost of \$3,099 per mile.

The invertor is of opinion that his ongine and track are particularly adapted to the propelling of canal boats, and will compete successfully with horse power on canals without necessarily interfering with the use of the iatter, but he does not state in what way. The e-gine will shortly be shipped to it destination, Atlanta, Gu., where it goes into operatio on a street railr ad, built at an elevation of 12 feet above the sidewalk.

THE SAVINGS OF SCIENCE.

Doubtless many of our readers have perused Dickens' excellent novel "Our Mutual Friend," and hence are, in a measure, familiar with the London dust heaps. P rhaps it will be re membered how the great writer describes their c atents, and, in his inimitable style, sketches the queer people who often spend their Lve. among them in secking for treasures. Those patient searchers are or ations of the past. Their t disome occupation is gone; for Science. with her inventions and processes, has extend ing gold. The ordinary waste of a single household may be roughly estimated at a barrelful per day, an I London, it s said, conains five hundred thousa d houses. Hence, the reader may form some idea of the wonder ful ingeouity which contrives to utilize the enormous aggregate of one hundred and eighty million barrels of refuse in the course of a single year.

The local authorities of London sell the privilege of removing dust and garbage from each district to a contractor, who corts it away to a large yard in the suburbs. There hill "How do you feel?" said she; "a little women, sieve in hand, separate the mass, by a the weight of raw merino wood while of ordi. with a dry towel afore be goes to bed, he's rade analysis, into component portions. The most valuable of the latter are the waste pieces of coal, and the breeze or coal dust and hau burnt ashes. The amount of waste of the "I must be crushed to pieces," said I, latter may be measured by the fact, that, after "for the train went over me, but I feel no selling the large pieces to the poor, the refuse breeze is sufficient to bake the bricks that are "There he goes about the train again," said | rebuilding London. The material is used by the contractors who generally combine the Why, I tried to move—there was nothing | builder's trade with their regular calling, for combustion for two or three weeks, aided by the circulation of air which is kept up by the method of stacking. The other constituents "It's nine o'click," said Joe. "You came of the dust heap are separated by the sifters tuns of bones that are picked out of the dust enough, they are remarkably free from in the course of a week, some go immediately to the boiling houses, where every portion of fat and golatin they can yield is extracted; the former substance is bought by the soanmaker, the latter is utilized to make the patent preparations employed in cookery, photography, etc. The large bones are use by the turners and are converted into hundreds of knick knacks, so that the bone you may have picked at dinner again cuters your mouth; brush, while the smaller pieces, for anght you know, have been calcined, and form the very charcoal toothpowder on your toilet table. Fragments that cannot otherwise be employed are ground very fine and treated with sulphuric acid, constituting an excellent artificial fertilizer. Bono dust is also use! by bakers for the purpose of adulturation, so that the pectical remark of the giant in the fairy

"I'll grind his bones to make my bread,"

Another important product extracted from bones is phosphorus, for which there are an tnat is saved in the process of boiling, is employed to make the commoner sinds of

Scraps of paper abound in the dust heaps. These are carefully sorted, the white from the colored and printed. The soiled pieces, which ca not be profitably manufactured are used to mako papier mache ornaments, dolls' heads, ctc.; the clean paper is returned to the mill, and even the printed paper has the ink discharged from it, and goes again into circulation. Old rags, of course, are valuable to the paper maker, although the discovery of other materials renders this form of waste not quite so important as formerly. Greasy eish cloths cannot go to the mills again, so they are sent to hop growers, to whom they are valuable as fertilizers. Woollen rags if they happen to b dyed scarlet, are treated for the recovery of the cochineal, which is used as a dyeing material; and other valuable colored rag, are ground up to make il ck paper.

The great markets for all old woolen fabrics in E gland is the town of Batley and its neighborhood, in Yorkshire, the great shoddy metropolis. A writer says, regarding this u anufacture : "Reduced to filaments and greasy pulp, by mighty toothed cylinders, the much vexed fabric re-enters life in the most b illight forms, from the sold plint cloth to silky mohairs and glossiest tweeds."

Cotton and woollen rags are both valuable when separate, but of late years it has been the custom to weave the cotton and woollen together, the warp being made of the latter material and the west of the former; thus mixed, however, the fabri: cannot be converted into paper or cloth. Many en leavors have been made to effect a separation, and at present the rage are placed in a closed received and subjected to steam at a very high temperature. The result is that the cotton comes out pure and fit for the paper maker; the wool is reduced to a dark brown powder, known as ulmate of ammonia, and is employed to enrich manures which are poor in nitrogen.

A very important constituent of the dust heap is the old iron, battered saucepans, old pails, rusty hoors, horseshoes, and nails from the road. All soldered articles have the solder extracted from them, as it is more valuable than the iron, and the cheaper metal is then in-lted. The horseshoe nails are not mixed with the common cast iron, as they are much sought after by guamakers for the purpose of making stub twist barrels. Scraps of iron, it is found, may be made very useful in securing the copper in the streams washing veins o' copper pyrites. Pieces of battered iron are placed in tanks, into which these are collected; the copper quickly incrusts the iron, and in procoss of time entirely dissolves it, so that a mass of copper takes the place of the iron. The residum, in the shape of a colored deposit, is at times taken out, dried, and smel ed.

The savings of science, however, are not all made in the dust heaps of London, though in the brief ontline we have given, of the mode o' utilizing some of the constituents of the waste of the great city, a vast economy is indicated. A singular and recent French discovery is that sheep draw a considerable quantity of potash from the land on which they graze, much of which is ultimately excreted from the skin with the sweat. It was pointed out by Chevreul that this peculiar potash compound (suint) forms no less ti an one third of hary wool it constitutes about 15 per cent. of the weight of fresh fleece. As the suint may be extracted by mere in mersion in cold water, t is easy for the manufacturers to produce more or less concentrated solutions from which the potash may be recovered by appropriate treatment. The development of this new industry is principally due to MM. Maumene and Rogelet, and their process consists in evaporating the solutions, which are sent to hem, until a perfectly dry and somewhat charred residue has been obtained. This is placed in retorts and distilled very much in the some manuer as coal at gas works, and the result is that, while much gas is evolved which can be used for illuminating the factory, and much ammonia is expelled which can be collected and utilized in many ways, there remains a residue which chiefly consists of carbonate, sulphate, and cholride of potassium. These three salts are separated by the usual method. and then pass into commerce. Curiously soda.

The wool manufacturers of Rheims, Elbeef, and Fourmies annually wash the fleece of 6,-750,000 sheep, and the amount of potash, reckoned as carbonate, which these florers would yield if all were subjected to the now process, represents a value of \$400,000. The by products of gas works are so valuable now that factories are actually set up boside such establishments for their utilization. The most once came, at a great cost. from Egypt, but is has to be brought to the surface before the ficient for the purpose. The friable perous shouldered, dark-visaged back-woodsman, en-

is fulfilled both figuratively and literally. residua are afterwards heated in iron pans with sulphuric soid, to which is added the ammonia from the gas liquors, and the three endless number of uses; and, finally, the fat | bodies combine with water to make common or ammoniac il alum

Nearly every article of the tillot bottle or sachet is made from waste, sometimes from foully odorous matters. A peculiar fetid oil, termed tusel oil, is formed in making brandy and whiskey. This fusel oil, distilled with sulphuric acid and acetate of potash, gives the oil of pears. The oil of apples is made from the same fuzel oil by distillation withfulphuric acid and bichromate of potash. The oil of pineapples is obtained from the product of the ction of patrid cheese on sugar, or by making a soap with butter and distilling it with alcohol and sulphuric acid, Oil of grapes and ol of cognac, used to impart the flavor of French cognac to common brandy, are little else than fusel oil. The artificial oil of bitter almonds is prepared by the action of nitric acid on the feeld oils of gas tar. The wintergreen oil of New Jersey is artificially made from willows and a body procured from a distillation of wood.

Dyes. like perfumee, are often derived from the most repu sive sources. The waste heaps of spent madder were formerly a great nuisance It is now found that this hitherto waste can be used, and at least one third can be saved by treating it with hot acid. Prussian blue is made from pieces of horse hoofs or refuse woollen materials by fusion with iron an I alkali.

Perhaps the most important refuse product that can be mentioned, and proceeding from a systematic manufacturing process, is that known as soda waste. Large quantities of this substance are rejected as useless by most alkali works, and it has been, for many years. problem and a reproach to chemistry. It is a great loss; and, if we can but recover it, no small victory will be achieved.

HUMOROUS.

UNDER DIFFICULTIES.

Those zealous Christians who cannot believe in the existence of religious duties, outside the walls of a church, may be entertained by the following story:- "A lady called upon the wife of a stober, in order to ascertain why she and her husband did not attend church. The woman conducted her visitor to the little kitchen, where her husband sat by the fire. He had just come home for half an hour to have his tea. and was, of course, in his working clothes, and his face and hands were of a deep oily black, after the manner of stokers. "Now, ma'am," said the woman, pointing to him, you see that there man; that's my husband and I'm bound to do a part by him, aiut 1? Surely," said the visitor, auxious to aphold the principles of matrimony. "Very well, then; would you like to know how I pass my Sundays? A washing of he! Never a blessed moment has he to wash himself through the w-ek, out early and late, and balf the night, too, and blacker nor any crow all the while. Well, on Sundays it is fitting and proper that he should try to look like a Christian if he can, so he sets me to it after we cats our breakfast, with a bucketful of of soapsuds and a scrubbing brush, and I rubs at him, off and on, all day, till my arms ache, and he aint much better than he wor; and after tea I goes at him again. and sluices him down till you'd think a born nigger 'nd come out white; and, if you will believe me, madam, when I polishes him off only a light brown, after all!" What was to be said to such stubborn facts? especially when the good woman fluished with the unauswerable argument, ' So you see, ma'am, them as wants to live religious has best not marry a stoker."

ADVISING HIM TO "GIT."

President Lincoln was celebrated as a narrator of stories applicable to peculiar circum stances, and was, doubtless, credited with the narrative of many he never told; but he was accustomed to tell good stories, and the following is represented by its writer to be ONE OF "OLD ARE'S" BEST

During the winter of 1862-3, when Grant was in command in West Tennesse and Northern Mississippi, and cotton brought such high prices, and was so difficult to obtain, a delegation was at the White House, seeking to obtain passes from Lincoln, to allow them to go into the "secesh region" and bring out the precious staple. The President objected to granting such passes, stating that he did not wish to interfere with any of Grant's plans. The General, he added, would probably not allow parties to pass beyond the lines, as they might be spies. "Gentlemen," said he, "I will tell you an an-edote in point. Many years, ago Bob Lewis, of Illinios, having had a violent attack of the land fever, concluded to enter some land in Northern Minnesota. Buying a good horse in St. Paul, where he enterimportant is alum, which, like sal ammoniac, ed his land, and with his evidence of title in saddle bags, he started on the road to St. now mainly procured from an aluminous shale, Cloud. There were but few settlements on which forms the root of coal mines, and which the way, as Bob pursued his course. seeking to locate his purchase, but wherever a cabin was coal can be gained. This was for a long time found on the almost "blind" road, Bob mide a perfectly refuse material, covering acres of inquiry, as to the section, town and range. ground, like the scorize and cinder heaps; but On the evening of the second day out, he rode chemistry has found it out, an I now obtains up to a cabin, which a squatter, living a few the product by setting fire to the shale, the miles book, said was upon his eagerly sought carbon and sulphur which it contains being suf- land. Sitting at the door was a hure. broad-

saged earnestly in amoking his well-burned cob-pipe. He oyed Bob severely. "My friend," said the latter, " I am looking for section—, town—, range—, and I think you must live on it." Well! yes stranger, I think as how you may be mighty night right," replied calmly, the nackwoodsman. "Am I? Then, sir, what right have you on my land? My title is in my sad He bys, from the United States. Now, what t the have you to show?" Jist hold on a minit, stranger, and I'll show my title," was the reply. The brawny man rose slowly, made a few steps, and reaching up to his long rifle, which hung on deer-horns over the fireplace, he returned with it to the door. Bringing it to the shoulder he cried. "This 'ere's my title, stranger; now I advise you to git." Then with londer voice, he almost yelled: "Git out o' here ! Git!" Bob knew he had not an instant to lose, and striking spurs into his horse, he was off. Now, gentlemen each of you may be a Bob Lewis, representing the civil law, but you may find General Grant the bankwoodsman, representing the military, and he will probably advise you to "git."

"FINISHING THE JOB."

The following i cident is related by a Melhourne paper. A certain person was travelling through a lovely district when he heard a great outcry Tainking bashrangers were at work, he fired off a pistol to intimidate them; and presently the no sed con-ed, and a scampering was heard. On coming to the open ground the traveller discovered a man tied to a tree. "Oh, sir !" cried the victim, "I am so glad you are come. I've been attacked by ruffians, and they were robbi- g me when they heard your pistol" "And couldn't you get loose, my friend?' asked the traveller. "No; they tied me so tightly." "And did they rob you of everything?" "No; only my watch. They had not time to search for my money, which I placed in my left boot." "How fortunate," observed the traveller; was the sum considera de?" "Over a thousand, thank Heaven," said the poor man. "Are you sure they are gone?" asked the other. "Oh certain." The new comer looked round and round, and seeing the coast clear, said coolly, "Well, as they're gone, I think I'll finish the j .b myself." And he proceeded to rob the anfortulate victim.

A YOKE OF ONEN AT ONE CHAW.

Many years ago a M. Miller, one of the early settlers of an Ohio town, sold yoke of oxen for fifty dollars, and rece ving in payment a fifty dollar hand-bill, which he carefully folded up and deposited is his tobacco-box for safe keeping. Mr. Miller was accustomed to make use of the weed at any hour of the day! or night even, wheneverse felt an inclination for it. The night following the sale of the exen he sought his tobased box. Fin log a convenient portion, he pus it into his mouth, and, not readily ob aining the full benefit be ext pected, he conwed it up most vigorously and effectually, excl iming as he did so, "No strength to the tobacco!" Next day he looked for the note and found it gone; reccollecting the transaction of the day and the place where he deposited his transucts, he added, "Oaio ! A yoke of oven at one chaw!"

VARY THE MONOTONY.

Home life is ap' to become monoton us, and . monotony means hum lrum family hold this matter in their own bands, for men, living an active out-mor life, frequently settle down to inactivity during their evenings, unless roused by some pleasant episode into liveliness. It is a wife's privilege to make the home lively, and to give var ety and interest to home life It is surprising how very little invention is requires to do this. All that is wanted is just an excuse for liveliness. A little valiety in the amusement of the children, if there be any; a lattle delicacy at table, or at an unexpected hour in the evening, some lettle reveity of dress, or the bringing in of an agreeable visitor. When people go trave ling they discover how many things they had at home which before they had barely thought of. Just so, when our friends are absent, they show us in their letters so many qualities of observation and sym? pathy and expression, which had remained undeveloped right under our noses. Somebody has discovered that change of situation has a wonder ully -timulating influence on the mind. We have to accommodate or recives to new circum tone's, and this friction rubin off some of the rust which made us half ine.

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