used, detection with a deliberate muries in of a moment's the first ship the liverpool to night by the is the port—and start to ry."

cret were once suspect nen would look like file suspicion. Go at once.

mind to stay and take my ered thoughtfully. d to me, Madge—if you nd an hour in this room the sound of your voice in and going out, I would adon than go to Africa to and shoot big game. I was before that night. when I had done that ight was to save my neck me and go scot free. be the same as it had field—the racecourse same. I thought I could the seasons came round sports, and the old people change. All the zest and I went about as if I aly half conscious of my the life round me. nt, the same haunting th me, and a ghost that Oh, Madge, you are praver, nobler. Pity me strong should pity the

poor soal, with all my ed, softly. She bent over burning forehead. For eir lives, her lips touched given. Madge, for that kies,"

shows me that you can love, don't banish me, you-always. Let me serves his master. Let an and corduroy, in Lisry coals and clean win-I you have tried me by ervice, if you like. God tient in consideration of nd then when you have some good in me, let me and let us go away toend of the world. If for me upon this earth, it you."

dream, Mr. Belfield, . your poor sick soul.] re, which I shall never re your duty to yourself, her and brother. Think uld be darkened by grief were brought to answer d made to appear that t—a deliberate murderer. ought to get away while Begin a new life in a d new duties, as I found was most desolate; and and saving the souls of ind a full atonement for d then the shadows will en will be lessened, the

without you, Madge.] ou in my misery. That as your own for ever." in saying these things, I

again, Mr. Belfield. ove, and all thoughts of ned out my path in life, to it. And now I must ht, and ask you to leave e a great deal to do be-

people do it for you? Canvening in your lite to my do so much for others?" of our little organization. hat all is done rightly. nd twenty sick or ailing in the house, and only es myself to see to them, od of twenty-two. I am ent resident. The other ive one day and night in e work. They come at and go away at eight on ing. It is one day taken worldly business for a We find the plan works esident sisterhoods. The eerful, better tempered, th. Their lives are not ere is no weariness, no into the outer world ng a certain amount o vork; and it makes them hat however worldly the may be, one day out of in doing good."

ur invention, I suppose !" trong heart! Why did 1 ue four years ago? Well received me kindly, se upon your kindness. ll come again to-morrow

of it, and go to Liverpool ne repeated, ignoring her

nds and parted. Scarceor shut upon him, when ace with her hands and

ny sin-stained love !" she re for you more in your ver cared for you yet. 1 to lead you back to haphope you could ever be curse of blood is on your e can there be for you PAVE !

CONTINUED)

ar Etiquette. essed young woman enreet car. A long whiskaring a dingy slouch hat pun clothes, got up, and my seat. I don't look as gentleman," nodding to hanking the old fellow.

old fellow with a smile pocket-book there on the pocket-book there of the see get up?" The young the old fellow mat down to hinkers, the see on setting the see of the setting the setting

Mither and More Wonderful Discoveries with the Lick Telescope.

polve the engima of the so called canals Mars, or to cast any important light pon those phenomena beyond confirming per fact of their existence it has made some tonishing discoveries in the nebular regof the universe. But for Prof. Holden's warance to the contrary we might, in fact, wied to think that the mighty lens on yount Hamilton, like Lord Rosse's huge piror at Parsonstown, would prove less sefulia observations requiring accurate defiition that in those which demand great ight gathering capacity. We recently decribed Prof. Holdon's discoveries in the elebrated Ring Nebula in the constellation ted. Lyra, where he found a marvelous structure of concentric ellipses, composed alternately stars and nebulous stuff-in short, a salf finished creation, where, it would seem. the great sunsmith is still forging the orbs light. Since then Prof. Holden has tindly sent us photogaphs shewing the appearance of two other nebulæ as viewed with the giant telescope. One of these, he hinks, must be regarded as the first representative of a new class of nebulæ, in which the nebulous stuff is arranged " in the form of a helix or screw, just as if the nebula had ben formed by one brilliant particle revolving around the central star and leaving a brilliant train, while the central star itself was rapidly moving through space." Not since William Herschel surprised the

world with his accounts of the wonders rerealed for the first time to human eyes by his telescopes, has any news been received from the celestial spaces of such absorbing interest as these announcements from the director of the Lick observatory. The nebula in question is one of those contained in Herschel's catalogues, and is situated in the constellation of Draco, in the north polar quarter of the heavens. The photograph shows a central point, or star, surrounded by two superposed nebulous spirals, the appearance of which certainly justifies Prof. the sun meanwhile is not standing still, but evil." of the same class of phenomena.

In the well-known "spiral nebulæ" we ance. have long had examples of nebulous forms made up of flat concentric rings or ovals, but these seemed naturally to suggest a likeness to the imagined condition of our solar system when it was in the earlier stages of its formation from a nebulous mass that had been shaped by rotation and condensation into a central aggregation surrounded by rings. But the helix-shaped nebula in Draco is something very different. There, if the nebulous spirals really imitate the form of the thread of a screw, the matter of which they are composed must have been left behind the moving body from which it was cast off, and the difficulty is to understand exactly how that could have occurred unless some medium is supposed to exist in the space through which the system These, converted into pulp, will be worth

It is evident that these discoveries will pretty certainly lead to new and important views not only of the contents of space, but of the laws that prevail throughout its unbounded domains, and govern the birth and growth and destiny of its countless and marvellously varied creations.

The Bishop's False Teeth.

Many a good story has been told about the consternation and dismay produced by the sound of the Scottish bagpipes on the uninitiated ears. They are said to have put to flight foes for whom a bayonet charge would have no terrors. But the story told by Bishop Taylor in Ashbury church one evening about the effect his moveable teeth produced among the blacks in Africa seems to cast all the other yarns of this kind into the shade. Somehow his black brethren came to know that the good Bishop had false teeth, and one of them gently and tremulously broke the subject to him in conversation one day. Not wishing to be suspected of witchcraft, the bishop told the children of the sunny south that in big America where he came from, when a man lost a leg he could go and get a new one made. And when his hair fell off he could buy a fresh supply, and so with the teeth, when they dropped cut or were pulled they could be replaced. "Then," said the bishop, " I drew out my beautiful, white, clean porcelain set, and when they saw that, you ought to have seen those darkies run and scream and gesticulate One woman declared she had seen the wonder of the world and was now content to die in peace."

A Frank Criticism.

"What do you think of my poem in the Gazette, Wilkins ?" "It was a remarkable piece of work. One thing about it I thought was particularly

Wonderful." "What was that?"

"That the Gazette ever published it."

A Difference of Opinion. Guest (to mountain house landlord)-I think the amount of this bill is entirely too

Landlord-Too large? Just fan yourself, air, with that bill, and get another whiff of the pure, health-inspiring mountain air you'll think it's too small.

To Cure a Corn.

There is no lack of so-called cures for the getable, animal, and mineral kingdoms have been ransacked for cures. It is a simple matter to remove corns without pain, for if you will go to any druggist or medicine dealer and buy a bottle of Putnam's Painless Corn Extractor and apply it as directed the thing is done. Get "Putnam's," and no other. common ailment known as corns. The ve-

SCIENTIFICAND DERPHI

While the Lick telescope has failed so far of flowers of sulphus for one night is said to cure sciatica. The skin should be thoroughly cleansed first.

To make a good mucliage without using gum-arabic, take dextrine two parts, water five parts, acetic acid one part, dissolve by the aid of heat and add one part of alcohol.

The tensile strength of a wet rope is only one-third that of the same rope when dry, and a rope saturated with grease or soap is weaker still, as the lubricant permits the fibres to slip with greater facility. Hemp rope contracts considerably on being wetted, and a dry rope twenty-five feet long will shorten to twenty-four feet on being wet

A committee appointed by the Society Industrielle de Mulhouse are strongly recommending boards made of plaster of Paris and reeds. The boards are made from alternating layers of plaster of Paris and reed hydraulically compressed. They are said to furnish an excellent building material particularly for walls and ceilings, as the, material is dry when used. The cost is only fivepence per square foot of 0.39 inch thick

According to recent experiments of M Hauriot and Richet, of which an secount has been given to the French Academy o Sciences, the ventilation of the lungs is increased by muscular labor. In moderate work the ventilation is more than sufficient for the excretion of the carbonic acid produced, and above all for the absorption of the necessary oxygen. In hard work the proportions of carbonic acid produced and oxygen absorbed rise slightly the harder

known as the Wiesbaden Congress, Dr. Binz Dakota and Nebraska, for which tickets will of Bonn read a paper on "Alcohol as a Rem-, be sold, September 11th, September 25th, edial Agent," in which he referred to ex. Ostober 9th, and October 23rd, at the rate pressed opinions and upheld the efficacious of one fare for the round trip. These excurvirtues of alcohol, contending that it has an sions will afford exceptional opportunities especial value in heart-failure and lung- for personal inspection of the productive Holden's suggestion that they may be the disease, that it is consumed in the organism, country reached by the Chicago & Northtrain of luminous matter left by a brilliant and that it operates as a controller of Western Railway lines. For full informaorb in its spiral path around a moving cen. pyxeria and fever while he regards it as an tion address E. P. Wilson, General Passentre. The reader can obtain a clear conception invaluable aid to the physician. Dr. Binz at ger Agent, Chicago. of this by considering the case of the earth | the same time holds that the consumption and the sun. The earth makes a complete of alcohol between meals, especially in the journey around the sum once a year. But form of beer, is in Germany a "national

is moving forward on an apparently straight | Linseed is recommended as a substitute course towards the constellation Hercules of gum-arabic. The seeds are first boiled at a rate which, though undetermined, is with water for an hour; the resulting thick certainly not less than two or three hundred | mass is filtered, and then treated with twice million miles in a year. If the earth in its its volume of ninety per cent. spirits of wine. journeying left a luminous wake in space, A flocculent white precipitate separates, from its path would appear in the form of a vast | which the dilute spirit can be readily despiral, resembling that actually seen in the canted. A yield is obtained of ten per cent, nebula in Draco. So far from this being a of dried "gummi lini" on the weight of the unique object, Prof. Holden says that several seeds taken. The gum forms a clear greyother nebulæ examined show evidences of a brown fragile mass which dissolves in water similar form, and he expects to discover without taste or smell similarly to gumfurther examples, perhaps still more perfect, arabic. Two grammes are sufficient to form an emulsion with thirty grammes It is difficult to suggest a satisfactory ex- of oil, which resembles the emulsion formed planation of such a structure in a nebula. with gum arabic, both in taste and appear

> For several weeks, says the Atlanta' Constitution, there have been on exhibition in the office of the clerk of the Superior Court samples of pulp made of the bulls and stalks of the cotton-plant. The pulp is as white as snow, and can be converted into the finest writing paper. It is regarded as valuable, and is the product of parts of the cotton plant hitherto deemed valueless. The process by which it is made is new. It is one by which the ligneous substance this process over fifty per cent. of the fibre is extracted from the hulls, which have been regarded as fit only for fuel in the mills, or for feed and fertilising purposes, and which were sold for four dollars a ton. about forty dollars a ton. At a very small expense this new process utilises about thirty-eight percent, of fibre from the stalks usually left to rot in the fields.

The Sugar Trust Dictates.

The octopus sugar trust has told the Senate of the United States what it wants. We suppose when political parties are so nearly divided, as now happens to be the case, the sugar magnates, who are stealing \$20,000,. 000 from the people annually through increased profit, think it is a question only of buying a few Congressmen. These trusts and syndicates have too long dictated to the American people

The sugar trust refuses to accede to the cut of 50 per cent. in the tariff, but will compromise on a cut of 331 per cent. the present sugar classification to stand. How complacent of the thieves! The Prairie Farmer idea of knocking the tariff from au gar for a year might bring these sweet auto crats to their milk, speaking after a dair

The consumption of sugar in the country is about 3.000,000,000 pounds a year. Yonge st., Toronto. Since the formation of the trust, the profits of the refiners have been increased from to 3 cents a pound. They have by cornering "reduced the price of raw sugar to themselves about § of a cent per pound." Hence they think themselves strong enough to dictate to Congress. What will the people think of their public servants who allow this dictation? Watch Congressmen who vote the Octopus sugar trust's demands.

Harvest Excursion to Minnesota, Dako-ta and Montana. First class accommodation. Tickets good for 30 days, including stop over privileges of 10 days going and 5 days returning, on the following dates: Tuesday, Sept. 25; Tuesday, Oct. 9 and Tuesday, Oct. 23. For free maps, books and all particulars, address J. M. HUCKINS, Trav. Pass. Agent, Palmer House Block, Toronto; F. I. WHITNEY, Gen'l Passenger and Ticket Agent; J. Book-WALTER, Land Commissioner. It is something to be good; but far better

to be good for something.

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Robert Garrett, once president of the B. O. R. R. is insand.

"Tis better not to be, than be unhappy," and no one can be happy whose system to deranged by poisonous secretions. Nearly all ills that flesh is heir to, arise from torpid liver and derangement of the digestive organs. Dr. Pierce's Pleasant Pargative Pellets correct irregularities of the liver, prevent constipation, and promote good health. Buy them of your druggist.

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is most distressing, not only to the person afflicted if he have any pride, but to those with whom he comes in contact. It is a delicate matter to speak of, but it has parted not only friends but lovers. Bad breath and catarrh are inseparable. Dr Sage's Catarrh Remedy cures the worst cases as thousands can testify.

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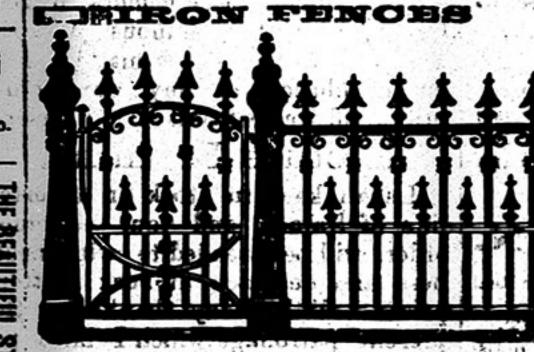
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