NOTES ON SCIENCE AND INDUSTRY.

commercial enterprise and industrial inge- by Professor Samuel A. King, the aeronaut, nuity, recently exhibited is the importation | and several financial backers, to take a into this country, of a peculiar vegetable ma- place from Philidelphia some time during terial from Oran, an Algerian seaport on the next summer. The project is not yet de-Mediterranean Sea. The fibre of this sub- finitely assured, although Professor King stance possesses the quality of being so elas- has been promised the funds necessary for a tic that it can be used as a substitute for complete preparation for the trans-Atlantic springs and the like, in the manufacture of journey. The expense that would be atfurniture backs and seats ; it is so expansive, tached to such an enterprise is estimated to indeed, and so easily affected by higher tem- be about \$20,000 or \$25,000. Professor peratures in its dry state that, when pack- King was seen late on Tuesday night about ed, the bales have to be held in place by the proposed oceanic balloon trip at his means of heavy steel bands. The peculiar- home. He had declined to give for publiity of this grass is that it thrives only around cation just what arrangements had been the volcanic slopes of Oran and flourishes made, deeming that it would not be proper, up to within a short distance of the craters | inasmuch as the enterprise had not been themselves-the latter being always in a positively assured.

described as having been crected for a flax out the plans by which such a journey can spinning mill in Belfast. Ireland, secures be accomplished. It is necessary that I close regulation by means of two governors, should try to make the trip soon, for in a and each cylinder has four Corliss valves. The use of supplementary governor, remarks a mechanical journal, is becoming almost universal in establishments where even speed is a necessity; the main governor has of course, a corresponding speed for each position in its range, and on its rising to give the earlier cut-off needed with a reduction of load, the engine would run at the increase corresponding with the new position of the governor-the supplementary governor steps in, however, and varies the length of the rod connecting the main governor with the detents, the results being to cut off the steam still earlier, and to bring in his effort many years ago. the engine back to the normal speed. In practice, the action of the two governors is simultaneous, causing the variation of speed to be very slight and little more than momentary, even under widely varying

M, Lepirre, a French artist, states that in demonstrating that sulphur melted a about 115° can be cooled in paper, he happened to use a lithographed card, of which the edges were turned up; upon taking away the card it was discovered that the lithographed charcaters were clearly and distinctly impressed upon the cooled surface of the sulphur, remaining thus after hard friction and washing. By repeated experiments in this direction he has succeeded in obtaining results of a very satisfactory character, The idea is to have the cuisine removed removing the paper each time by a mere washing and rubbing process. It is found, in fact, that sulphur will receive impressions from and reproduce, in a faithful manner, characters or designs in ordinary graphite crayon, colored crayons, writing ink, typographical inks, china ink, lithographic inks-whether colored or uncolored varieties -and others. He also states that it will reproduce with remarkable exactitude maps.

Workers and artisans in metallurgy will be interested in the formula, lately published, of Horgan's process for coating sheet iron with lead, by means of which such admirable results are obtained. In accomplishing this result, the metal is first made free of sale by means of hot dilute sulphuric acid, then washed with water, and afterward transferred to a vat containing a solution of lime or other alkaline compound, which serves to prevent oxidation and acts as a flux. The sheet iron is now placed in a dilute solution of zinc chloride containing on the average twenty pounds of oxalic acid and ten pounds of sodium sulphite per ton of iron treated, these quantities depending upon the quality of the metal. After this immersion, the sheets are passed through melted lead, and allowed to drain.

for a long time been accomplished by various | situation, and ended by saying : simple methods differing but slightly in their details; but it has recently been pro- object to pay my fare and take its value in posed, instead of the usual plan of using this way." pitch to cement coal dust together to form | Here he drew from his cigar-case a fine briquettes, to resort to substances of a after-dinner Perfecto and offered it to the glutinous or farinaceous character, these in- | conductor. cluding those obtained from wheat, barley, cent. to 95 per cent, of coal dust being to give me two of them.' found to constitue a suitable proportion. The mixture may be kneeded, by hand and sets in a short time, so that moulding under pressure is not really essential, though moulding may be resorted to, for securing rapid manufacture. The product is said to burn with less smoke than the ordinary briquettes, and it is claimed that, in the matter of cost, the new article is the more economical. Ashes, or refuse matter from coal fires, with or without fresh coal, may also be utilized.

A protographic journal states that by treating resin with sulphur to about two hundred and fifty degrees. Cent., a reaction takes place, attended by the evolution of sulphuretted hydrogen, and leading to the formation of an almost black pitchy substance containing sulphur and resembling considerably the well-known Syrian asphalt work.

A new English pattern of stair thread is made of alternate strips of lead and steel, the lead furnishing foothold and the steel The preventing wear. The lead is cast in groov- joy. es in a plate of steel, and it is asserted that this form of step has unusual durability, not wearing smooth even under heavy travel.

Do Not Belleve It.

Do not believe that Nerviline will cure neuralgia almost instantly. If your teeth ache console yourself with the reflection that pain can't last for ever. Don't use Nerviline; it might stop the pain. Rheumatism is often difficult to cure. Keep on rubbing the old fashioned liniments as a matter of respect to your grandfather's aunt. Nerviline is a new discovery that in Nerviline, the most powerful, penetrating, and certain pain remedy in the world.

Trying to Make Up.

" Mrs. Muggs-" What are you drinking whisky for?

Mr. Muggs-"Th' grip, m' dear." Mrs. Muggs-" You got over the grip a physic.

month ago. Mr. Muggs-" Yes, m' dear ; but I didn't know 'bout whisky bein' good fer grip then, m'dear "

Across the Ocean in a Belicon.

To make a voyage across the ocean to Eu-One of the most curious developments of rope in a balloon is an enterprise projected

semi-active state, and the earth around so "The talk is that the start," said he, warm that not a plant of any kind can "should take place some time in August thrive or is ever seen to grow except this from this city. That is the best time. I am steel-like product, and the practical value very anxious that it shall realy occur for I which is likely to be fully utilized in future. have been considering such a project for The triple expansion mill engine, lately several years. I think I have a last mapped period not far distant I might find that I have not vigor to risk such a task.

voyage across the ocean in a balloon it would be the first feat of the kind in history. There have been several attempts made to cross the Atlantic through the air, but they resulted in signal failures. Professor Wise tried it about forty years ago, but he was not able to get a start. Subsequently Professor Lowe also made an attempt, the start. ing point being at Point Breeze, but the balloon was not properly made. Professor Donaldson did not have much better success

It is Professor King's opinion that the balloon necessary to make a trans-Atlantis voyage should be a hydrogen one, and the capacity should be from 400,000 to 500,000 cubic feet. He believes that a trip through a high altitude, say three and one-half milec high, as has been suggested by some aeronauts, is not advisable. His idea is that the balloon should carry a drag rope 1.000 or 2,000 feet long, with the end trailing in the water. In this way the balloon could strike a current of air and travel with it across the ocean.

There would be two cars attached to the balloon. The upper one would carry the passengers and the food. The lower one would be used as a cuisine, and could be descended into by means of a rope ladder. from the upper car about the space of twenty-feet, so that there would be no danger from the coal oil stove. Professor King has made over three hundred balloon ascensions in his career.

Syrup of Figs,

Produced from the laxative and nutritious juice of California figs, combined with the medicinal virtues of plants known to be most beneficial to the human system, acts gently, on the kidneys, liver and bowels, effectually cleansing the system, dispelling colds and headaches, and curing habitual constipation.

Her Nature Revealed.

Jack-" What is your idea of a true wo-

Harry-"One who will kiss her rival on the way to keep an appointment with a man she has hired to toll the bell at the hour of her rival's wedding."

lionaire who was caught on a surface car without change in his pocket. He went The conversion of coal dust into fuel has to the conductor quietly and explained his

"If you're a smoker, perhaps you will not

"All right," said the latter, "but 'biz is rye, or other cereals of vegetables, 5 per | biz.' The fare is five cents, and you'll have

The passenger laughingly complied, as he thought the humor of the affair, intentional or not, deserved recognition.

Your action alone determines your worth.

Blood Supply. To one capful of boiling milk add same

quantity of St. Leon Water "cold." Drink before, with or after meals freely as necessity requires, You will feel such a glow, inconceivably warming and thrilling the pulses, such bracing of nervous power, such elevation of vital and mental force inconceivable, surpassing all preparations to sup-ply life ever discovered. "We possess overwhelming authority."

Clemency is the surest proof of a true

Mr. John A. Campbell, Sr. Sixte, Que., in many of its properties. Among these is writes :- "My wife was unwell for four its quality of being insoluble in alcohol, but | years from irregular periods, brought about it dissolves readily in chloroform and bya severe cold. She tried many remedies, benzine, and is also sensitive to light in the but without relief. Seeing Dr. Williams' same way as Syrian asphalt, for which lat- Pink Pills advertised, I procured two boxes ter it can be substituted in photographic and the result is a permanent cure. They are the best medicine in the world for the disease you represent them, for. Sold by

There is no worship where there is no

NEW YORK.

Elegant new buffet sleeping cars, especially built for this service, leave Union Station daily, except Sunday, at 455 p.m., running through without change to New York City over the popular West Shore route Lunches are served on these cars, and they contain every comfort and convenience, and are so perfect in all their appointments that a trip to New York is made a pleasure, all tedious transfers and the annoyance of itself ought to condemn it. Therefore cling lunch counters being dispensed with. Sunto the old; suffer pain; avoid the use of days leave Toronto at 12,20 p.m., connecting with a through car at Hamilton, Train leaving Toronto every day at 12.50, p.m., connects at Hamilton with through sleeping car for New York, arriving 7.30 following W. McDOWALL morning.

Labor not needed for good is food for

GIBBON'S TOOTHACHE GUM. For sale by Druggists, Price 15c. She Was Willing to Give Up All.

When Queen Elizabeth of England, found death approaching her, she cried despairingly, "All my possessions for a moment of time !" There are wealthy ladies to-day the world over, who would gladly exchange their riches for sound health. Many are made well and happy by Dr. Pierce's Favorite Prescription, a never-failing cure for diseases so common to women. As a corrective for all functional weaknesses it is of universal repute among the sex, and thousands of pale, worn-out, enfeebled victims swoop it and you in by hurrah have been changed into vigorous women and girls by its use. Guaranteed to give satisfaction or price refunded. Druggists have

He who would search for pearls must dive

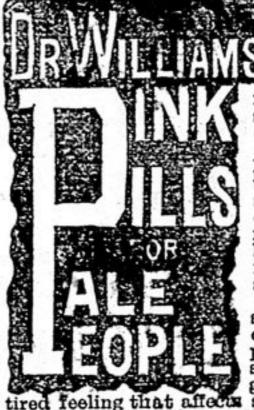
"Two Souls With but a Single Thought." As they sat side by side, they sighed. ing the best Dry Goods. Not "On my idol!" he said, and then idled. "Dear Luke," said she, as she looked. "I the best puffed, but the best will wed thee if thou wilt," and he wilted. The honeymoon passed in an excess of joy. Excess in eating rich food brings indigestion, sick headache, and frequent attacks of dizziness. Dr. Pierece's Pleasant Pellets will cure all these. They are tiny, sugar-coated, and easy to swallow. No other preparation Should Professor King accomplish the compares with them as a Liver Pill. They are guaranteed, and one is a dose.

Virtue treads paths that end not in the

Here Lies!

Epitaphy is a demoralizing kind of taffy. the dead almost to the very stars. The usual method of beginning, is: "Here lies." Very suggestive, for the lies are frequently quite astonishing-almost enough so to both amuse and amaze the dead of whom they are written. A truthful epitaph, in many instances, would be: "Here lies one who cal Discovery." If sick and suffering, and dreading premature death, test the potent remedy. It cures all chronic, liver, blood, and lung diseases, as biliousness, skin and scalp diseases, scrofulous sores and swellings, saltrheum, tetter, erysipelas, and even scrofula of the lungs (or Consumption), if taken in time.

Great truths are portions of the soul of



and NEEVE TONIC. They supply form ALL the substances needed to enrich the Blood and to rebuild the Nerves, thus making them a certain and speedy cure for all diseases arising

from impoverished blood, and shattered nerves, such as par-alysis, spinal dis-eases, rheumatism, sciatica, loss of memory, erysipelas, pal-pitation of the heart, scrofula, chlorosis or tired feeling that affects so many, etc. They have a specific action on the sexual system of both men and women, restoring lost vigor.

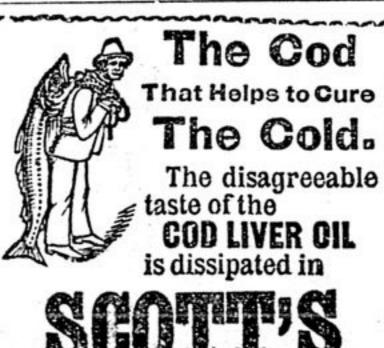
weak men

(young and old), suffering from mental worry, overwork, insomnia, excesses, or self-abuse, should take these Pills. They will restore lost energies, both physical and mental. SUFFERING WOMEN

Business is Business. A good story is told of a New York mil afflicted with the weaknesses peculiar to their sex, such as suppression of the periods, bearing down pains, weak back, ulcerations, etc., will find these pills an unfailing cure.

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Sometimes the truth seems like exaggeration because so much exaggeration passes for truth. You judge this as essay and write it down as chaff. It appears on the tombstone, and eulogizes It would be if the store were other than this, but when you think of half a thousand helpers in fifty different Depart- 18 ments covering more than stances, would be: "Here lies one who omitted to take Dr. Pierce's Golden Mediyou shall determine this great Dry Goods Palace to be some- MONEY! thing beyond the ordinary. It is! It is! Such a showing of fashionable stuffs is beyond LOAN AND AGENCY CO LTD comprehension of those who havn't already seen it. We had a mind to say it hasn't an equal anywhere. Certainly not in Canada.

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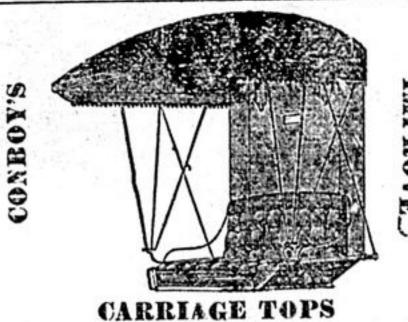
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