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His Fina cial Embarasments Briefly Touched Upon in a Personal Letter. Personal.) WASHINGTON, D. C., ALONG TOWARDS MORNING, 1887.

Cashier World Office, New York: My Dhan Sin-You will doubtless be surrhad by a from me so soon, as I did not as other I loft New York that I would a you at all while here. But I now take and house that the senate and house resentatives are having a good deal of ten with me, and hope you are enjoying the me great blessing. You will wonder at test why I send in my expense account bere I send anything for the paper, but I will plain that to you when I get back. At at I thought I would not bother with the years as sunt till I got to your office, but an now see that it is going to worry me to there unless I hear from you favorably return mail.

is ben I came here I fell into the mad whirl society, and attracted a good deal of atstion by my cultivated ways and Jefferian method of sleeping with a different

member of congress every night.

Congressmen and their wives are daily landing at the great national Castle Garden and looking wildly around for the place where they are told they will get their mileage. On every hand all is burry and excitement. Bills are being introduced, acquaintances renewed and punch bowls are beginning to wear a preoccupied air.

I have been mingling with society ever since I came here, and that is one reason I have written very little for publication and did not send what I did write.

Yesterday afternoon my money gave out at 3:20, and since that my mind has been clearer and society has made fewer demands on me. At first I thought I would obtain employment at the treasury department as exchange editor in the greenback room. Then I remembered that I would get very faint before I could go through a competitive examination, and, in the mean time, I might lose social cast by wearing my person on the outside of my clothes. So I have resolved to write you a chatty letter about Washington, assuring you that I am well and asking you to kindly consider the inclosed tabulated bill of expenses, as I need the money to buy Christmas presents and get home with,

My idea was that board and lodgings would be the main items of expense, but I struck a low priced place where, by clubbing together with some plain gentlemen from a distance who have been waiting here three years for political recognition, and who do not feel like surrounding themselves with a hotel, we get a plain room with six beds in it. The room overlooks the District of Columbia, and the first man in has the choice of beds, with the privilege of inviting friends to a limited number. We lunch plainly in the lower part of the building in a standing position, without restraint or finger bowls. So board is not the principal item of expense, though of course I do not wish to put up at a place where I will be a disgrace to the paper.

I wish that you would, when you send my

I had better remain here during the entire session or not. I like the place first rate, but my duties keep me up nights till a late hour, and I cannot sleep during the day, because my room mates annoy me by doing their washing and ironing over an oil stove.

I know by what several friends have said to me that congress would like to have me stay here all winter, but I want to do what is best for the paper.

I saw Mr. Cleveland briefly last evening at his home, but he was surrounded by a crowd of fawning sycophants, so I did not get a chance to speak to him as I would like to, and don't know as he would have advanced the amount to me anyway. He is very firm and stubborn, I judged, and would yield very little indeed, especially to BILL NYE.

Yours truly, Exhibit A. item by itself there is really nothing startling



"WE LUNCH PLAINLY."

about it, and when you remember that I have been here now four days, and that this is the first bill I have sent in to the office during that time, I know you will not consider it out of the way, especially as you are interested in seeing me make a good paper of The World, no matter what the expense is. We are having good open winter weather, and stock is looking well so far.

I fear you will regard the item for embalming as exorbitant, and it is so, but I was compelled to pay that price, as the man had to be shipped a long distance, and I did not want to shock his friends too much when he met them at the depot.

To rent of dress su: for the purpose of seeing life in Washin, ton in the interest of the paper. To charges for dispersing turtle soup from \$4.50 Te charges for dispersing turtle soup from lap of same
To getting fur collar put on overcoat, in interest of paper
To amount loaned a gentleman who had lived in Washington a long time and could make me a social pet (I will return same to you in case he pays it before I come back)
To lodgings two nights at 25 cents
Six means at 15 cents.

Six meals at 15 cents.

Six meals at 15 cents. 90
Pen and ink 95
Postage on this letter 68
Bronchial troches, in interest of paper 90
Car fare 90
Carriage hire in getting from humble home of a senator to my own volumptuous lodgings 90
To expenses of embalming a man who came to me and wanted me to use my influence in changing policy of the paper 180,00
To fine paid for assault and battery in and upon a gentleman who said he wanted my influence, but really was already under other influence, and who stepped on my stomach twice without offering to apolo be 90
Paid janitor of jail next moraing 10,00
Paid for breaking window of my cell 90
Paid annuage for writing humorous postry on wall of cell so that it could not be erased 90

I will probably remain here until I hear from you favorably. I have not several members of congress for whom I have voted at various times, off and on, but they were cold and haughty in their intercourse with ms. I have been invited to git on the floor of the house until I got some other place to stay, but I hate to ride a free horse to death.

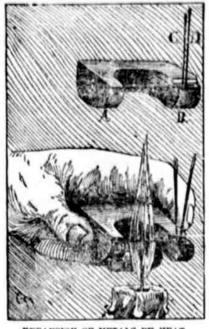
-New York World.

SCIENCE AND PROGRESS.

A CURIOUS ILLUSTRATION WITH AN APPLE AND A SWORD.

Electric Heat Indicators as Means of Preventing Spontaneous Combustion at Sea. A Simple Apparatus for Showing the Expansion of Metals by Heat.

The simple piece of apparatus illustrated in Fig. 1 will show the expansion of metals by heat as well as the more expensive pyrometers. It is made by cutting a piece of cork into the shape represented, and placing a needle, AB, across the opening, the pointed end being firmly fixed in the cork, while the eye end is free to move,



EXPANSION OF METALS BY HEAT. A second needle, D, somewhat smaller, is passed through the eye of the first-just far enough into the cork to enable it to stand upright. A third needle, C, is placed beside it to make the movement more evident.

When the needle AB is heated in the flame of a candle its expansion will push D from its upright position, to which it will return upon the subsequent cooling and contraction. Care should be taken not to place the upright needle too far into the cork, as this might prevent its movement by the expand-

Fastest Speed by Railroad Train.

The fastest rate of speed attained by a railroad train has been a matter of considerable dispute. A few trains, both in this country and in England, make regular runs for a short distance at the rate of sixty miles an bour, although the number of trains that average forty miles an hour is very small. It has been doubted if it were possible to atcheek, write me frankly whether you think tain a speed of much over sixty-five or seventy miles an hour, even under the most favorable conditions. A correspondent of The English Mechanic, however, writes that during a recent journey on one of the regular express trains of the Great Northern railway seven miles were covered in 5 minutes 29 seconds, twelve miles in 9 minutes 37 seconds, and fifteen miles in 12 minutes and 14 seconds. Seventy miles of the journey only occupied 69 minutes and 39 seconds, and for a short distance a measured speed of eighty miles an hour was attained.

Fire Prevention.

Electric heat indicators are valuable means of preventing spontaneous combustion at These consist of thermometers incased and protected by iron tubes, provided in a well known manner with platinum wires and | wing joins the body, work the point of the connected to a system of electric bells and knife into the joint and with the side of the The following bill looks large in the aggre- indicators on deck. These thermometers are | knife press the wing over from the body and dangerous cargoes as coal, cotton, etc., liable to spontaneous com- through the flesh and separate it from the bustion. Should any undue heat arise in any part of the cargo, the mercury in the thermometers will rise, make contact with the platinum wires and give an instantaneous alarm on deck, at the same time indicating the ex- and tough you will have to feel with the act spot where such dangerous heat does

Excavating in Frezen Ground.

It is often necessary to make excavations for pipes in very cold weather, under which conditions the operation is difficult. The trouble due to frost can only be remedied by thawing out the surface. The Electricita says that quicklime has been tried with success. The surface where the excavation is to begin is covered with alternate layers of lime and snow. The lime becomes slaked and heats the soil so effectually that after ten or fifteen ease, even where the cold is excessive. Where there is no snow, water can be used.

A Curious Illustration.

A curious illustration of the principle of inertia can be shown, explains La Nature, by enveloping an apple in a piece of cotton cloth, and suspending it in the air. Then take a sword or sharp knife, and strike the apple a sharp, quick blow from below, being careful to give a direct and not a drawing cut, and the apple will be cut in two without injury to the cloth.



THE APPLE AND THE SWORD.

The figure in the upper corner shows the section of the blade best adapted to this purpose; but any moderately sharp and brightly polished blade will answer, although several trials will probably have to be made before the experiment succeeds.

Lead Water Pipes.

The action of lead pipe on water has again been tested, and, according to The Sanitary News, this time with a negative result. The director of the public works department of Paris was sately compelled to line a portion of the Vance a queduct, owing to the infiltration of matters from the parts around the tube. Sheet lead was used for the purpose, Fearing the lead would be dangerous, Professor Gautier made an analysis of fifty litres of the water before it had reached the lead, and of fifty litres after having passed through the lead lined portion. No trace of lead was found.

Appearant men

ALL AROUND THE HOUSE.

Fashionable Tuble Lines-How to Carve a Fine, Fat Goese—Pure Candles. French table linen appears to be the most fashionable just now, though Scotch, Irish and German cloths are all found in the finest goods. Two favorite patterns are the Pompelian and the pois Medina. The center of the first is filled in with large square blocks, and the border surrounding it is of triangles. The second is composed of medium sized balls and a border of larger balls, around which are twined myrtle leaves. Another much used pattern is the Caprice, which has a perfectly plain center and is surrounded by large flowers. One of the most expensive patterns is the Hirondelles. This linen is beautifully marked. The border is a design of rocks out of which are growing cattails, while in the center are small swallows. The birds are exquisitely wrought. The feathers on their wings are so true to nature as to stand out in a fluffy mass. The cost of a set of these, including a tablecloth and a dozen napkins, reaches \$100.

Almost all the cloths have large center pieces. In some instances the linen is embroklered. A late craze is for cipher monegrams, and much lipen is embroidered in that sorts in being of much lighter texture and more elaborate decoration.

What to Do With Cold Plum Pudding. The remains of plum pudding are sometimes broiled in slices, sometimes converted into fritters. A more elegant way of serving them is the following suggested by Mrs. Hen derson. Line a charlotte mold or basin with slices of cold plum pudding cut to fit closely together. Fill the inside with a sufficient quantity of gelatine pudding made as follows: Separate the whites and yelks of four eggs; with the yelks make a boiled custard (with a pint of milk and sugar to taste); set a third of a box of gelatine to soak a few minutes in a little cold water, then dissolve it with threequarters of a cupful of boiling water. When the custard has cooled, add the gelatine water and the whites of the eggs beaten to a stiff froth; flavor with vanilla, stir all together and put it into the mold. It will settle into three layers and is a very pretty pudding.

New Year's Cake.

An excellent New Year's cake may be made by the following nut cake recipe of Miss Parlon: One cupful of sugar, half a cupful of butter, half a cupfut of milk, two cupfuls of pastry flour, two eggs, one coffee cupful of chopped raisins, one of chopped English walnuts, one teaspoonful of cream of tartar, half a tenspoonful of soda. Beat the butter to a cream, add the sugar, gradually, and, when light, the eggs well beaten, then the milk and the flour in which the soda and cream of tartar (or a teaspoonful and a half of baking powder instead) have been thoroughly mixed. Mix quickly and add the raisins and nuts. Bake in rather deep sheets in a moderate oven thirty five minutes.

The goose may be considered the popular and traditional fowl of the holiday season as the turkey is of Thanksgiving. Many people suppose that the two birds are carved in the same manner, but Good Housekeeping explains that the goose requires more strength and skill and a different method of carving from any other fowl.



TO CARVE A GOOSE.

The approved plan is to place the goose on the platter with the head at the left and insert the fork firmly across the ridge of the brenst bone. Cut through the flesh where the cut until the BRITHEFT TEENS. body. Cut between the leg and the body, press the leg over with the side of the knife till you see the joint. Then cut through the flesh close to the body. If the bird be old knife for the joint.
In carving the breast begin at the wing and

cut straight down through the meat to the bone the whole length of the breast as indicated by the long lines of the cut. Cut down in thin parallel slices until you come to the ridge of the breast bone. Cut down between the wishbone and the breast to the wing, then slip the knife under the slices at the lower end of the breast, and separate them from the bones. Lay them aside and cut in the same manner on the other side of the breast. Make several cuts at right angles with the breast bone through the skin and hours of can be dug up with the greatest stuffing between breast and tail, and remove the stuffing.

With the fork still in the breast bone tip the bird over slightly and with the point of the knife remove the delicate portion in the hollow of the side bone; a little may be shaved off the lower edge of the side bone. The little meat there may be on wishbone, shoulder blade and side bone may be cut off without disjointing the bones. So, as soon as the breast is carved, remove the fork, disjoint the legs and wings and begin to serve.

Cake for Children.

A kneaded plum cake is much liked by children, and is included by many books in the list of holiday good things. The ingrodients are two and one half caps of sugar, half a cup of butter, half a cup of sour milk, two spoonfuls of cream, a tenspoonful of saleratus, half a spoonful of cinnamon and of nutmeg, a cupful of chopped raisins, and about six cupfuls of flour, or sufficient to knead. Roll out an inch thick, cut into oblong pieces, and bake in a quick oven.

Home Made Candies. Home candy making, though not confined

to the holiday season, is generally carried on then with the most vigor. Recipes for a few of the most popular plain candies are therefore given. Butter Taffy.-Two cups sugar, one cup

water, two tablespoons of molasses, four tablespoons of vinegar, one and a half tablespoons of butter. Boil twenty or thirty minutes and pour in buttered tins. Vinegar Candy .- Three cups of sugar, half cup of water, two-thirds cup of vinegar.

Boil without stirring till brittle. Lemon Drops.-Dissolve half a pound of pulverized sugar in lemon juice and boil to a thin syrup. Drop on plates and harden in a warra place.

Ice Cream Candy.-Two cups sugar, half a cup of water. When boiling add a tenspoon of cream of tartar dissolved in a little water. Bo'l ten minutes without stirring, then add a small piece of butter and boil till it will harden in water, then flavor and pull. Butter Scotch.-Three tablespoons of mo-

lases, two tablespoons of sugar, two tablespools of water, one tablespoon of butter, a little soda before taking from stove. Nut Candy,-Five cups sugar, six table-

spoons of water, four tablespoonfuls vinegar, one tablespoonful butter. Boil without stirring till it crisps in cold water. Line buttered tins with nut meats and pour the candy over them. When nearly cold mark off into

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ROBERT LOUIS STEVENSON will contribute regularly to each number during the year. He will write of many topics, old and new, and in a familiar and personal way, which will form new bonds of friendship between the author and his thousands of readers. In his first paper entitled "A Chapter on Dreams," appearing in the January number, he rela'es incidentally, in connection with the genral subject, some interesting facts concerning the origin of the now famous story, Strange Case of Dr. Jekyll and Mr. Hyde.

French cloths differ from the other in heing of much lighter texture and of an especially important and interesting series of papers on railways, their administrations and construction, including great engineering feats, famous tunnels and passes and, indeed, those branches of the subject which in this day engage the attention of the whole country. The illustrations which will accompany this series will be very elaborate, original, and beautiful. The authors and the titles of the future articles will be

> DR. D. A. SARENT'S papers on Physical Proportions and Physical Training will be continued by several of increasing interest, with as rich and unique illustration as those which have already appeared.

> ILLUSTRATED ARTICLES of special interest will be those on the Campaign of Waterloo, by JOHN C. ROPES; on "The Man at Arms," by E. H. BLASHFIELD; two papers by EDWARD L. WILSON, illustrating results of recent Egyptian research; a further article by WILLIAM F. APTAORP, on a subject connected with his recent contribution on Wagner, and many other of equal interest, PROFESSOR SHALER'S articles on the Surface of the Earth will be continued and articles upon two of the most interesting groups of contemporary European writers. articles upon two of the most interesting groups of contemporary European writers will be accompanied by rich and povel portrait illustrations.

> ELECTRICITY in its various applications as a motive power EXPLO-SIVES, etc., will be the subjects of another group of illustrated articles of equil prac-tical interest, by leading authorities upon three topics.

MENDELSSOHN'S LETTERS written to his friend, Moscheles, at a peculiarly interesting time of his career, will furnish the substance of several articles of great interest to musical readers, which will be illustrated with portraits and drawings from Mendelssohn's own hand.

THE FICTION will be strong, not only in the work of well-known writers but in that of new authors, in securing whose co-operation the Magazine has been so fortunate during its first year of publication. A serial novel, entitled "First Harvests," by FREDERIC J. STIMSON, will be begun in the January number, and early in the year no cities will be published by HENRY JAMES and H. C. BUNNER. The short stories are of noticeable strength and presquess.

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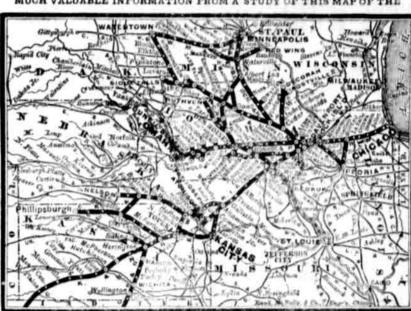
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