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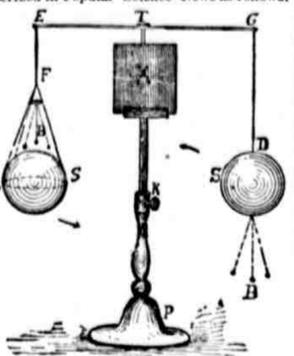
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## SCIENCE AND PROGRESS.

### PROCESS FOR INSTANTANEOUS GENERATION OF STEAM.

**The Phenomena of Somnambulism and Their Connection with the Nerve Centers—An Apparatus for Repeating Foucault's Pendulum Experiment.**

A French scientist, M. Boillot, has devised an apparatus for repeating Foucault's well known pendulum experiment on a small scale, and showing that, when an oscillating pendulum is attached to a revolving sphere, the plane of its oscillations preserves the same position independently of the rotation of the sphere to which it is attached. The construction of this simple and inexpensive apparatus was recently illustrated and described in Popular Science News as follows:



THE GALILESCOPE.

Two light rubber balls, S, S, about four inches in diameter, are suspended by threads, D, F, eight or nine inches long, to a horizontal rod, EC, about a foot in length. Two bullets, B, B, are attached to the balls, one above and the other below, by threads three or four inches long, forming two little pendulums. The whole system is made to revolve horizontally by the clock work X, which can be improvised out of any old clock. It should be arranged so that a complete revolution will be made in five or ten minutes. If now the pendulums are set in motion, and the whole apparatus made to revolve around the axis, TK, it will be seen, that, whatever the position or movement of the larger balls, the pendulums will always vibrate in the same direction, unaffected by the motion of the spheres to which they are attached.

It will readily be understood, that, if one of the revolving spheres was, in fact, indefinitely large, and the observer was placed upon it, and partook of its motion, the pendulum itself would seem to revolve, instead of the sphere. This is exactly what happens in the case of the earth. A pendulum swinging at the north or south pole would be moving in a plane perpendicular to that of the earth's rotation, and would apparently move entirely around a circle in the course of twenty-four hours, though really the pendulum would remain swinging in the same direction, while the earth and the observer would have moved around it.

### The Phenomena of Somnambulism.

The phenomena of somnambulism and their connection with the nerve centres have not been satisfactorily accounted for. They probably depend primarily, says The Lancet, upon a directing impulse of sensory origin. Some of our actions often become by practice so nearly automatic that partial sleep or stupor does not arrest their unconscious performance. In somnambulism the intellect and controlling will are torpid, while the sensorium man whom they should govern is awake and active. As in dreams the intelligent sensorium is alone drowsily active, with possibly a noticeable tendency to restless movement, so there may be other states of dreaming, in which the centers of motion are stimulated to a more powerful but unconscious action. Partial counteractives to somnambulism may be found in throwing off worries, and in the proper regulation of evening meals.

### Death in Burning Buildings.

It has become a question, it seems, whether death in burning buildings is as horrible as is generally supposed. The Lancet, speaking particularly of the affair of the Opera Comique, in Paris, observes that the burning seldom occurs in these cases until after death, or at least insensibility to pain, has been produced. Except under very peculiar conditions, the victim is made faint and pulseless by the carbonic acid, or the carbonic oxide gas, before the fire reaches his body. It is the experience of persons who have been in a burning house that the heated and smoky atmosphere speedily induces a feeling of powerlessness and of indifference to what is going on around; and it is generally this stupefaction, with subsequent paralysis of feeling, that prevents judicious means being taken for escape.

### Preserving Flour Paste.

In mounting photographs it is desirable that the flour paste be used fresh or be prevented from turning sour and moldy. Mr. William Thompson has found after careful experiments that hydrofluoric acid possesses this property to a remarkable degree. He advises the mixture with the paste of a small quantity of fluosilicate of sodium. It is said to be a powerful antiseptic, non-poisonous, odorless, and dissolves very sparingly in cold water.

### To Get One's Bearings with a Watch.

A correspondent of La Nature points out the following simple method of obtaining one's bearings with a watch. Turn your back to the sun, then take out your watch and place the small hand in the direction of the shadow made by your body. Then imagine a line starting from the center of the dial of the watch and passing through midday. The bisectrix of the angle formed by this line and the small hand gives the north.

### Instantaneous Steam.

A process for the instantaneous generation of steam has lately been patented in England by John Blum. Remarkable claims are made for its economy. It will save 50 per cent. in fuel, 95 per cent. in boiler space and 53 per cent. in the cost of plant. Moreover, by its use a boiler explosion becomes an impossibility.

### Whirl of Stage Passion.

In order to try the extent to which a tragic actress is moved by the whirl of stage passion, Sarah Bernhardt's pulse was once taken at the wings immediately after a scene of great intensity. It ticked as regularly and normally as an eight day clock.—Chicago Times.

### Salt for Sick Headache.

Dr. Rawlow, of Berlin, finds that half a teaspoonful or more of common salt, taken as soon as premonitory symptoms of an attack of sick headache begin to show themselves, will frequently cut it short in about half an hour.

## THE CURIOSITY SHOP.

### The Fisheries Question—The Three Main Points at Issue.

The contested points in the fisheries question may be stated thus:  
 1. Whether the United States have a right in the British fisheries independent of treaty provisions.  
 2. What are the rights of American fishermen under the convention of 1818 and under the laws of navigation and trade.  
 3. The "Headland Question," which is included in the other two questions. The British hold that the line must be drawn from headland to headland, three miles from shore. This interpretation would exclude American fishermen from the bays which indent the coast deeply and are the resort of the fish. The Americans say that three miles from shore means upon a line parallel with the shore and three miles distant at every point. Consequently all bays more than six miles wide at the mouth would be open to American fishermen.

### A Question in Literature.

The following question and answer have appeared in The Brooklyn Eagle:  
 What event is referred to in the following extract from the "Marble Faun," in volume 2, chapter 22: "And she revealed a name, at which her auditor started and grew pale, for it was one that only a few years before had been familiar to the world in connection with a mysterious and terrible event." The reader if he think it worth while to recall some of the strange incidents which have been talked of and forgotten within no long time past, will remember Miriam's name. KENYON.  
 Answer.—We asked Mr. Julian Hawthorne what he knew, if anything, upon the subject of his father's design in regard to "Miriam," and he replies that the character of "Miriam" and the "mysterious and terrible event" are entirely imaginary. The question has often been asked before; but, like the original of "Zenobia" and the "House of the Seven Gables," they are purely imaginary.

### The First Bayonet.

That very formidable weapon, the bayonet, is said to have derived its name from the fact that it was first made at Bayonne, and its origin illustrates the proverb: "Necessity is the mother of invention." A Basque regiment was hard pressed by the enemy on a mountain ridge near Bayonne. One of the soldiers suggested that, as their ammunition was exhausted, they should fix their long knives into the barrels of their muskets. The suggestion was acted upon. The first bayonet charge was made, and the victory of the Basques led to the manufacture of the weapon at Bayonne and its adoption into the armies of Europe.

### A Throne Chair of B. C. 1600.

That most ancient and interesting historical relic, the throne chair of Queen Hatshep (XVIII Egyptian dynasty, B. C. 1600) described in the jubilee number of The Times, on the 23d of June, has been presented to the British museum by the owner, Mr. Jesse Hawthorth, of Bowden, Cheshire. This throne chair is the only extant specimen of ancient Egyptian furniture, and is the most valuable piece of dated cabinetmaker's work in the world. The national collection is much enriched by this addition to its treasures, and the nation has reason to be grateful to the munificent donor.

### Velocity of Light and Electricity.

The French physicist Fizeau calculated the velocity of light at 185,157 miles a second; and the astronomer, Schumacher, calculated it at 187,420, and Michelson obtained 187,280 as the result of his calculation. Wheatstone, the English electrician, found that free electricity traveled 288,000 miles a second; Kirchhoff concluded, from theoretical considerations, that an electrical current sent through a wire in which it meets no resistance, has the velocity of 192,924 miles a second. The velocity of an electric current sent through iron wire is 62,100 miles a second; through copper wire, 111,780 miles.

### Making a Constitution.

The constitution of the United States was the result of three months' work by a convention of thirty-nine delegates from the states, of which Washington was president. Among the delegates were Roger Sherman, of Connecticut; Alexander Hamilton, of New York; Benjamin Franklin, of Pennsylvania; James Madison, of Virginia, and Charles Cotesworth Pinckney, of South Carolina. Concessions were made by all hands, and the present constitution is the result.

### The Executive Before Washington.

The presidents of the Second continental congress, which expired on March 4, 1789, after an existence of nearly fourteen years, were regarded as the personal representatives of the sovereignty of the union. Arthur St. Clair of Pennsylvania, was president of congress when the constitutional convention adjourned on Sept. 17, 1787. He was succeeded on Jan. 22, 1788, by Cyrus Griffin, of Virginia. He was president of congress until Washington was inaugurated.

### Scott-Siddons.

Mrs. Mary Frances Scott-Siddons is the great-granddaughter of the celebrated Mrs. Siddons, her father having been a son of the Mr. Siddons who settled in India very early in this century. When very young she married Paymaster Thomas Chanter, royal navy, and shortly after became an actress, when for professional purposes they both legally took the name of Scott-Siddons, his mother's and her own maiden surnames. I had these details from the lady herself. D.

### A Former Market.

From the middle of the Sixteenth to the middle of the Eighteenth century, Amsterdam enjoyed the distinction of being the chief commercial city in Europe.

### A Rare Curiosity.

"I saw a curiosity the other day of a kind that is rare, I think," said an old gentleman in the course of conversation. "It lay pressed between two leaves of her prayer book, and as she tendered the sacred volume to me, that I might join in the devotions of her church, it slipped slowly and noiselessly to the floor. I stooped and picked it up, and there, written by nature's own hand across the face of a preserved leaf, were the names Paul and Laura. Curious to know how such a thing could happen, and trusting in my gray hair to excuse the curiosity, I asked how it had been done, when she blushing said: 'We cut the letters from paper and pasted them firmly upon the leaf, thus excluding the light and producing a tracing of the names. He is in the navy, a lieutenant, and we are shortly to be married. I am superstitious, and would be very loath to lose this leaf out of my book.'—San Francisco Call.

### Onions a Good Nerve.

Those who are in the habit of indulging in raw onions, says a medical man, may be consoled for the social disadvantages which ensue by the fact that onions are about the best nerve known. No medicine is really so efficacious in case of nervous prostration as they tone up a worn out system in a very short time.

## ALL AROUND THE HOUSE.

### Celluloid Work of Various Kinds—Traditional Good Dishes for the Season.

Celluloid, which can be bought in small sheets, is one of the newer materials used in fancy articles, and should not be overlooked by those who are making up holiday gifts. It can be beautifully decorated with gold and silver paints and oil covers, and, being stiff, is suitable for covers to little needle books and cases of various kinds.  
 Then there is much to be done with chamois skin. There is hardly anything nicer for making sachets, court plasters, cases, pen wipers, wipers for spectacles, needle books and the like. A pretty pen wiper is cut out in the shape of a butterfly, the body of which is made of brown velvet. Leaves for spectacles are shaped like a real forest leaf with the edges notched. The top leaf is veined with gilt or with embroidery silk, and the whole tied together with ribbon.

### Extra Mince Pies.

Every housekeeper wants her holiday mince pies to be especially nice. The following recipe differs considerably from ordinary ones and makes one's mouth water, but to read it: Keep a beef's tongue in salt for four or five days, then boil till tender and, when cold, chop it fine; to this add two pounds of freshly grated suet, two pounds of raisins, two pounds of currants (well washed and drained), twelve large apples (chopped), four pounds of sugar, the juice and pulp of two large oranges and the grated rind of one, a cupful of strawberry or raspberry jam, three-fourths of a pound of citron shaved fine, a cupful of quince preserve, two tablespoonfuls of ground cinnamon and one nutmeg. Wet the mince meat with the rich liquor from the sweet peach pickle jar, with a little brandy if desired, and add the juice and grated rind of four lemons.

### Christmas Plum Pudding.

Whatever else may be omitted from the Christmas bill of fare, plum pudding should have a place. A small pudding, very light and rich, may be made as follows: To three ounces of flour and the same weight of fine, lightly grated bread crumbs, add six ounces of finely chopped suet, six ounces of raisins, six ounces of currants, six of well cleaned currants, four ounces of minced apples, five of sugar, two of candied orange peel, half a teaspoonful of nutmeg and pounded mace mixed, a very little salt, a small glass of brandy and three whole eggs. Mix and beat these ingredients well together, tie them tightly in a thickly floured cloth and boil three and a half hours. Serve with wine sauce.

### A Delicate, Wholesome Dessert.

As everybody does not eat mince pie, plum pudding and other very rich dishes, something lighter should also be included in the dessert of Christmas and New Year's dinners. An almond custard is very nice and perfectly harmless to an irritable stomach. The ingredients are one pint of milk; one teaspoonful of sugar, one-fourth of a pound of blanched almonds, pounded fine, two spoonfuls of rose water and the yolks of four eggs. Stir over a slow fire till thick as cream. Pour into a dish; beat the whites of the eggs with a little sugar and lay on top.

### A Nice Gift to an Old Lady.

If any of the young people want a nice gift for grandmamma or some other dear old lady, let them make a triple working of chambray or gray linen, satin silk or satin. This is simply three bags of say 4 by 5 1/2 inches in size, with a casing stitched on near the top of each to admit a double cord, on which the three bags are strung. The holes through which the cord is slipped into the casing are buttonholes. In the different bags are kept thread, buttons, thimbles, wax, needle book, etc. When not in use all can be drawn closely up together.

### A Charming Work Chatelaine.

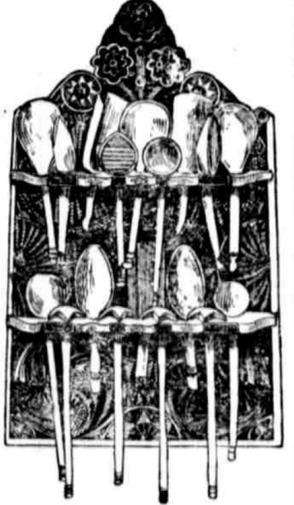
A very dainty chatelaine for a young lady fond of fancy work consists of a rosette or round bow of delicate blue, pink or any colored satin ribbon, that is most becoming to her, from which hang four ribbons of various lengths; to one is attached a pair of scissors, to another a pretty needle case, to the third a tiny bag for thimbles, etc., and to the fourth an emery ball.

### Wine Sauce for Rich Puddings.

Cream together equal quantities of butter and sugar until very light. Add then the beaten yolk of an egg and a little grated nutmeg. Take a large wingless each of sherry wine and water; heat it and just as it begins to boil stir it into the butter and sugar.

### Ornamental Rack for the Kitchen.

Decorative art has invaded even the kitchen, but in doing so it has perhaps only returned to its starting point. Our illustration shows a carved wooden rack for kitchen spoons, such as used to be common in old times in the houses of rich Dutch peasants. Not only is the back of the rack elaborately carved, but the tips of the spoon handles are furnished in the same way.



CARVED WOOD RACK FOR KITCHEN SPOONS.

The above affords a useful suggestion. Any handy man or boy can make a wooden rack of similar fashion that will be a tasteful decoration for a cozy home kitchen. The cook, especially if she be the mistress also, will be delighted with this article, at once pretty and useful, for it will be found a great convenience in keeping spoons, tasting forks and various small things in place. The ornamental back need not be hand carved like the old Dutch model, but can be cut out in a pretty design with a scroll saw. If not made of hard wood, the rack can be stained to a dark color. The wood should be rather thick and the shelves firmly put on, so that the rack may be substantial and enduring.

# SCRIBNER'S MAGAZINE

Prospectus for 1888—Beautiful Christmas Number.

The holiday issue now ready, is complete in itself, containing no serial matter. The cover is enriched by an ornamental border printed in gold. The price is, as usual, 25 cents. It contains the most delightful stories, poems, and essays by distinguished writers, and superb illustrations.

Among the important articles to appear during the year 1888 are the following—Send for prospectus;

**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 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 relates incidentally, in connection with the general subject, some interesting facts concerning the origin of the now famous story, "Strange Case of Dr. Jekyll and Mr. Hyde."

**RAILWAY ACCIDENTS**, by W. S. CHAPLAIN, will be the first 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 announced later.

**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. APFAORP, 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 will be accompanied by rich and novel portrait illustrations.

**ELECTRICITY** in its various applications as a motive power EXPLOSIVES, etc., will be the subjects of another group of illustrated articles of equal practical interest, by leading authorities upon these topics.

**MENDELSOHN'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 freshness.

**ILLUSTRATIONS.** The Magazine will show increased excellence in its illustrations. They will be more abundant and elaborate than ever. It is the intention of the publishers to represent the best work of the leading artists, and to promote and foster the most skillful methods of wood engraving.

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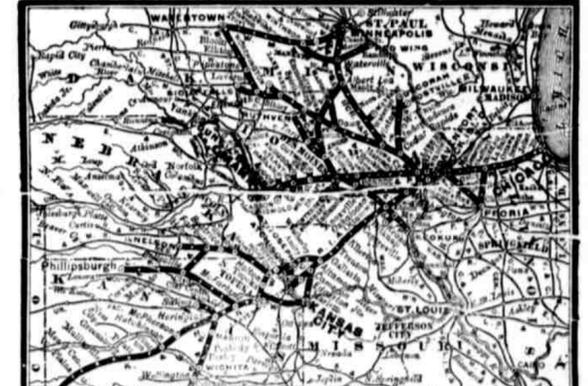
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