Making a Plate from Which a Perfect Production of Your Speech Can be Made When You Are in Your Grave,

The Philadelphia Times has an article describing Professor Edison's marvelous phonograph and how it works. We make the following extract:

The instrument was operated sometimes by Mr. Bentley, but principally by Mr. James Adams, the inventor's repre-sentative. Mr. Adams, a highly intelligent Scotchman, with a strongly marked Scotch accent in his speech, has been for five years the assistant of Professor Edison in the latter's electrical and other experiments. The machine occupied no ore space than would a Webster's nuabridged, and its construction appeared as simple as that of a housewife's coffee It was a fac simile of one which Professor Edison is now constructing, and which is to have a capacity of 48,000

Mr. Adams, before the performance began, thus explained the instrument: "In this gutta percha mouthpiece is a very thin diaphragm, made of tin type metal. The vibrations of the voice jar the diaphragm, which has in its center, underneath, a fine steel point. Around this brass cylinder, which, you see, is closely and finely grooved by a spiral, I wrap a sheet of tinfoil. I shove the mouthpiece up until the steel point touches the tinfoil, just above the first groove on the left. Turning the cylinder with this result. diameters and resembling the old Morse telegraphic alphabet. The cylinder moves from left to right until the steel point has gone over the entire length of the spiral. Thus we have, as it were, a stereotyped plate of the voice. From this plate a matrix in sulphur (the most can be taken from that matrix other plates capable of the same work which you will presently see this one perform. 'Now I turn the cylinder back to the the words, intonation and accent are retering. Now listen." Several gentlemen, evidently supposing that they would not be able to hear without having their ears close to the funnel, were outting their heads near the instrument, but Mr. Adams told them that such a proceeding was unnecessary, as they could distinguish the sounds well enough at a distance.

Mr. Adams, having wrapped a sheet of pitch and time, but with distinct articulation, meanwhile slowly and regularly turning the crank, the following:

Jack and Jill went up the hill To get a bucket of water; Jack fell down and broke his crown And Jill came tumbling after.

Having reset the cylinder and fixed the funnel in the mouthpiece he turned the crank and the diaphragm repeated the rhyme, not only as distinctly as he

Causing the steel point to proceed from the ending of "Jack and Jill," Mr. Adams again put his mouth to the diaphragm and uttered in more varying tones, which had a range from almost a whisper up to a screeching soprano, the

Hallo! Hoop-la! Ya-hoo! Nineteen years in the bastile !

I scratched my name upon the wall And that name was Robert Lundr-y-y-y, Parlez yous Francais? Sprechen sie Doutsch? Turning the crank backward until the steel point touched the beginning of "Jack and Gill," he again gave the forward motion. The diaphragm's elecution of the rhyme was on this occasion as good as before, and the second conglomeration of utterance was delivered by the vibrating metal with all the characteristics of the operator's ejaculations and recitation. For the sake of novelty the steel point was now caused to go along the perforated spiral, while Mr. Adams whistled, yelled and shouted all sorts of ridiculous things into the mouth-piece. As a result the bit of metal strongly affected the risible muscles of the audience by something like this :-

Jack and Jill went—" Cheese it !"—

Up the hill
To get a bucket—" O, wipe off your chin!"—

Of water.

Jack fell down and " Hello, young—

Broke his crown

Feller, does you're mother know you're

Feller, does you're mother know you're out?"
And Jill—" Ya-hoo! I've bottled myself Edi Came tumbling after.

Came tumbing after.

Hallo! hoopla!—"Shut up!"—ya-hoo!

"Go bag your head!"—Nineteen years in the Bastile.

"I'm a "—Seratched my name—"a jolly Irishman"—Upon the wall

And that—"From Dublin town I came"—
Namo was—"Ha, ha, ha!"—Robert
Landry-v-v.

Landry-y-y. srice vous Français? - "Go hire a hall!" Sprechen sie Deutsch? - "Go, give us a rest!" The effect of this was too ludicrous for description, and for a time all hands were uncontrollably merry. Having put on and caused the steel point to perforate a new sheet of tin foil, again speaking "Jack and Jill" into the instrument, Mr. Adams made the point travel backward, and the disphragm reproduced the recitation, beginning with the last word, "after," and ending with the first word, "Jack." In this way the operator amused his audience

for an hour. He became hoarse, but the instrument did not. There is no electricity about the speaking phonograph, and, like so many other great inventions, its construction is so simple and its operation so easily understood that a person seeing it would probably ask himself, "Now, why didn't I think of that?"

"This mule," remarked the livery stable man, as they passed the stall where the sleeping animal was leaning up against the partition, dreaming of an Eden wherein there was but one mule and a thousand timid men, "this mule is a kicker." "This one?" innocently insured the very general laying his box. inquired the young man, laying his hand upon the mule to be sure that the pro-per animal was indicated, "This —" The livery man said he didn't mind the loss of the money (as the young man did not take out the fancy rig he was going to look at), for he could more than make that up on the hearse and carriages as soon as the remains came down; but what he hated about it was having the roof of the stable mussed up so where the young man went through.

The ware passable for carriages and the Turks leave everything to time and chance. The only scavengers are the vultures, which may sometimes be seen hovering about in the clear sky, and Augsberg or Toledo, and imperial Rome

## CONSTANTINOPLE.

Graphic Description of the Turkist Capital. There are four cities in the world that belong to the whole world rather than to any one nation, cities that have influenced the whole world, or round which its history has at one time or another revolved, cities in which students and philosophers from every country are equally interested. These four are Jeru-salem, Athens, Rome, Constantinople, The first has given to civilized mankind their religion; the second has been our great instructress in literature and art; the third has spread her laws, her languages, her political and ecclesiastical institutions over half the globe. And though Constantinople can lay no claim to the moral or intellectual glories of these other three, though her name does not command our veneration like Jerusalem, nor our admiring gratitude like Athens, nor our awe like Rome, she has preserved, and seems destined to retain, an influence and importance which they have in a great measure lost. They belong mainly to the past; she is still a power in the present, and may be a mighty factor in the future. For fifteen hundred years she has been a seat of empire, and for an even longer period the emporium of a commerce to which the events of our own time seem destined to give a growing magnitude. If you look at the map you will see

mouthpiece. The diaphragm vibrates, causing the steel point to perforate the tinfoil, leaving little holes of different diameters and resembling the old a separates Europe from Asia. continents. All the marine trade, both export and import, of the vast territories which are drained by the Danube and the great rivers of southern Russia, as well as that of the north coast of Asia Minor, and of those rich Eastern lands desirable substance for the purpose) can be formed, and years from now there under its walls. When the neighboring countries are opened up by railways it will be the center from which lines will radiate over European Turkey and Asia Minor. With a foot, so to speak, on starting place in order that the steel each continent, the power that possesses point may go over the perforations which it can transfer troops or merchandise at it made when I talked in the mouth-piece. The steel point, kept down by a vent any one else from doing so. Then rubber spring underneath the diaphragm | consider how strong it is against attack. trips from hole to hole, causing the It is guarded on both sides by a long diaphragm to vibrate as it did when I and narrow strait—to the N. E. the was talking into the mouthpiece. This causing the corresponding opening and closing of the valves of the diaphragm, the wayls intention and account are the control of the valves of the diaphragm, the wayls intention and account are the control of the valves of the diaphragm, the wayls intention and account are the control of the valves of the diaphragm. down of torpedoes, be easily rendered impregnable to a naval attack. For the produced with perfect accuracy. It impregnable to a naval attack. For the would be impossible for any human mimic to do it so well. The small end of this tin funnel is fixed in the mouthpiece to keep the reproduction from scat. | not only winding but it is nowhere over two miles and in some places scarcely half a mile wide. And it possesses a splendid harbor, land locked, tideless, and with water deep enough to float the largest vessels. On the land side it is scarcely less defensible, being covered by an almost continuous line of hills, lakes and marshes, with a comparatively narrow passage through them, which offers great advantages for the erection tin foil around the cylinder, spoke into of fortifications. There is no other such the mouthpiece in a voice of ordinary site in the world for an imperial city. In other respects it is equally fortunate. Of its beauty I shall say something presently. Although the climate is very hot in summer, and pretty keen in win-ter, it is agreeable, for the air is kept deliciously fresh by the seldom failing breezes that blow down from the Enxine or up from the Ægean sea, and the sea itself is a great purifier. Though there is no tide there is a swift surface current sweeping down into the sea of Marmora had uttered it, but with so perfect a and the Mediterraneau, a current at one mimicry of the Scotch accent as to cause a general outburst of laughter, in which the genial operator heartily joined.

The Matthe Mether and the Mether and off whatever is thrown into the water. So, though it is one of the dirtiest towns in the East, I fancy it is one of the most healthy.

People are always saying that the in side of Constantinople dispels the illusions which the view of it from the sea or the neighboring hills has produced. But those who say so, if they are not merely repeating the common places of their guide-book, can have no eye for the picturesque. I grant that the interior is very dirty and irregular and tumble-down, that smells offend the nose, and loud harsh cries the car. But then, it is so wonderfully strange and cucious and complex, full of such bits of color, such varieties of human life, such far reaching associations from the past, that whatever an inhabitant may desire. a visitor at least would not willingly see anything improved or cleared away. The streets are crooked and narrow, climbing up steep hills, or winding along the bays of the shore, sometimes lined with open booths, in which stolid old Turks sit cross-legged sleepily smoking, sometimes among piles of gorgeous fruit, which even to behold is a feast, while sometimes they are hem-med in by high windowless walls and crossed by heavy arches, places where you think robbers must be lurking.

Constantinople has absolutely nothing to show from pagan times. Though Byzantium was nearly as old as Rome, the city of Constantine is the true creation of the first Christian emperor, and possesses not a relic of paganism, except the twisted serpents from Delphi and an Egyptian obelisk planted near them in the hippodrome.

There are no shops in the streets of is an enormous square building, consisting of a labyrinth of long covered arcades, in which the dealers sit in their stalls with their wares piled up round them. It is all locked up at sunset. You may buy most things in it, but the visitor is chiefly attracted by the rugs and carpets from Persia, Austolia, and Kurdistan, the silks of Broussa, and the stores of old armor (real and false) from everywhere. Purchasing is no easy matter, for a stranger is asked thrice the value of the goods, and unless he is content to be cheated both by the dealer and his own cicerone interpreter (who of course receives a secret commission from the vendor), he must spend hours and hours in bargaining. Bus-iness is slack on Friday (the Mussulman Sabbath) and on Saturday (since many Sabbath) and on Saturday (since many of the 'dealers are Hebrews), as well as on Sunday. It is conducted funder another difficulty, which drives the visitor almost wild—that of a multiplicity of "circulating mediums." There is a Turkish metallic currency, and a paper currency, greatly depreciated, besides all sorts of coins of other nations constantly turning up, among which the stantly turning up, among which the Indian rupee is one of the commonest; and you have to make a separate bargain as to the value at which the coins you happen to have in your pocket will be taken. Hotel lodging, and indeed almost everything, is very dear: for Western books you pay half as much again as in London or in Paris. There is little sign of a police in the streets, and nothing done either to pave or clean them. Few are passable for carriages and the Turks leave everything to time and the Turks leave everything to time the content of the traveler's imagination in America, with that interest of the past which curtain has dropped upon them; empire, and commerce, religion, and letters, and art, have sought new seats. But the

the dogs, of which there is a vast multi-tude in the city. Though you must have often heard of these dogs, the tradition that obliges every one who talks about Constantinople to mention them is too well established to be disregarded. No-

body owns them or feeds them, though each dog mostly inhabits the same quar ter or street; and in fact is chased away or slain if he ventures into the territory of his neighbors. They are ill-favored brutes, mostly of a brown or yellowish hue, and are very much in the way as one walks about. At night they are a serious difficulty, for the streets are not lighted, and you not only stumble over them, but are sometimes, when you fall into one of the holes in the roadway, tumbled head foremost into a nest of them, whereupon a terrible barking and snapping ensues. However, they don't molest you unless you first attack them; and as canine madness is unknown, or nearly so among them, nobody need fear hydrophobia,

St. Sophia is one of the wonders of the

world. It is the only great Christian church which has been preserved from very early times; for the basilicas of St. John Lateran and St. Mary the Greater, at Rome, have been considerably altered. And in itself it is a prodigy of architectural skill as well as architectural beauty. Its enormous area is surmounted by dome so flat, pitched at so low an angle, that it seems to hang in air, and one cannot understand how it retains its conesion. The story is that Anthemius, the architect, built it of excessively light bricks of Rhodian clay. All round it, dividing the recesses from the great central area, are rows of majestic columns, brought hither by Justinian, who was thirty years in building it (A. D. 538-568) from the most famous heathen shrines of the East, among others from Diana's temple at Ephesus, ank that of the Sun at Baalbec. The roof and walls were adorned with superb mosaics, but the Mohammedans, who condemn any re-presentation of a living creature, lest it should tend to idolatry, have covered over all these figures, though in some places you can just discern their outlines through the coat of plaster or whitewash. In place of them they have decorated the building with texts from the Koran, written in gigantic characters round the dome (one letter Alif is said to be thirty feet long), or on enormous boards sus pended from the roof, and in four flat spaces below the dome they have sufferspaces below the dome they have suffered to be painted the four archangels whom they recognize, each represented by six great wings without face exother by six great wings, without face or other

One of the most highly cultivated and widely traveled ecclesiastics whom Russia possesses (they are, unhappily, few enough) told me that after seeing nearly all the great cathedrals of Latin Europe all the great cathedrals of Latin Europe he felt when he entered St. Sophia that in front. The height, according to Pliny, it far transcended them all, that now for is 143 feet, and the circumference of the the first time his religious instincts had been satisfied by a human work. Mr. Fergusson, in his "History of Architecture," says something to a similar effect. evidences of having been a small temple. This will hardly be the feeling of those whose tastes have been formed on Westwhose tastes have been formed on West-ern, or what we call Gothic models, with nation of intellectual and physical powtheir mystery, their complexity, their er, and was worshiped as a deity. beauty of varied detail. But St. Sophia certainly gives one an impression of measureless space, of dignity, of majes-tic unity, which no other church (unless perhaps the Cathedral of Seville) can rival. You are more awed by it, more lost in it than in St. Peter's itself.

In Constantinople there is neither \$1,000,000 in fractional coins weighs 58,928 4-7;
In Constantinople there is neither \$1,000,000 in fractional coins weighs ion. Nobody knows what the Sultan's weighs 220,457 1-7; 1,000,000 in three

ministers are doing, or what is happen-ing at the scene of war. Everybody lives in a perpetual vague dread of everybody else. The Turks believe that dollars per month would amount in a only waiting for a signal to set upon and massacre them all. I thought these fears exaggerated; and though my friend and I were warned not to venture alone into St. Sophia, or through the Turkish quarters, we did both, and no man meddled with us. Indeed I wandered alone in the streets of Stamboul at night, and met no worse enemies than the sleeping dogs. But the alarms are quite real if the dangers are not; and one must never forget that in these countries a slight incident may provoke

a massacre like that of Salonika. Constantinople is not only a city that belongs to the world; it is in a way itself a miniature of the world. It is not so much a city as an immense caravanserai, which belongs to nobody but within whose walls everybody encamps, drawn by business or by pleasure, but forming no permanent ties, and not calling himself a citizen. It has three distinct histories-Greek, Roman and Turkish, It is the product of a host of converging influences-influences some of which are still at work, making it different every year from what it was before, Religion, and all those customs which issue from religion, come to it from Arabia; civilization from Rome and the West; both are mingled in the dress of the people and the buildings where they live and worship. Races, manners, languages, even coins, from every part of the East and of Europe here cross one another and interweave here cross one another and interweave themselves like the many-colored threads in the gorgeous fabric of an

Eastern loom. The rarest and most subtle charm of a city, as of a landscape or of a human Stamboul proper, for nearly everything, except food, is sold in the bazaar, which somewhat fancifully) its expression, the somewhat fancifully) its expression, the indefinable effect it produces on you which makes you feel it to be different from all other cities you have seen be-The peculiarity of Constantinople is that, whi e no city has so marked a physical character, none has so strangely confusing and indeterminate a social one. It is nothing, because it is everything at once; because it mirrors, like the waters of its Golden Horn, the manners and faces of all the peoples who pass in and out of it. Such a city is a glorious possession, and no one can recall its associations or meditate on its future, as he gazes upon it lying spread before him in matchless beauty, without a thrill of solemn emotion. And this emotion is heightened, not only by the sense of the contrast, here of all the world most striking, between Mohammedanism and Christianity, and the recollection of the terrible strife which enthroned Islam in the metropolis of the Eastern Church, but also by the knowledge that that strife is still being waged, and that the shores which lie beneath your eye are likely to witness struggles and changes in the future not less mo-mentous than those of the past. It is this, after all, that gives their especial amplitude and grandeur to the associations of Constantinople. It combines that interest of the future which fires the traveler's imagination in America,

erself have shrank to a museum of aniquities .- Macmillan's Magazine.

Stanley. At a lecture delivered by Mr. Stanley in London, the Prince of Wales is said to have asked Midhat Pasha, the Turkish ambassador, if he had found the discourse interesting. The answer is said to have been: "We Turks have more need now than other people to take an interest in expeditions into unknown lands, since we may soon have to seek among them for a home." The "personal" man of the London World, who went to see Mr. Stanley in his lodgings, gives this sketch of him: "The figure which rises from the fireside to greet the visitor is that of a small, stiffly built man, erect in bearing, but in voice and manner rather sympathetic and enthusiastic than hard and stern. The voice is not as the voice of a determined and cruel man. His hair is—to quote a phrase of Dickens— gray before its time, like a neglected fire. Hard work and exposure have made Mr. Stan-ley's abundant lecks very gray; but for all this, the head is that of a young man, and there is no indication of premature age in voice or gesture. The expression of the face is that of a man who always holds himself prepared for any emergency or summons, even though the latter convey as large an order as that which Mr. Stanley received on a memo-rable occasion a few years ago from his New York 'boss: 'Send a man 200 miles up the Red Sea to intercept Norna and scertain details of Livingstone's death. Cable 1000 words to this office.' The Herald man in Egypt had relays of donkeys ready at Suez. The Norna came to an anchor during the night; a boat sent from the shore boarded the steamer at daylight, interviewed Wainwright, and, thanks to the donkey arrangements, a splendid account reached the New York Herald office in London, and was distributed, with Mr. Gordon Bennett's compliments, to all London, provincial and Continental papers."

## The Great Pyramids.

So much has been written about the reat pyramids, says a correspondent, that I will spare myself from entering upon the task of a description. I call it a task, because among the authorities I have on Egypt I find scarcely two ever, coincide in saying that the height of Cheops exceeds that of the spire of the Strasburg Cathedral, which is the tallest in Europe. The Sphinx stands in front of the second pyramid, and shows a length of 140 feet with the foreforehead 102 feet. When first exhumed a paved inclosed place was found be-tween the paws, which contained the The Sphinx was held by the Egyptians

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One million dollars in gold weighs 3,685 5-7 pounds avoirdupois; 1,000,-000 trade dollars weigh 60,000; \$1,000,cent nickels weighs 142,857 1-7; \$1,000, 000 in one cent pieces weighs 685, 7142-7. ous string 1,1364 miles in length.

A man, in early railway days, was taken to see the performance of a locomotive. He had never known carriages to be moved except by animal power. Every other explanation failed to make the matter clear to him. After long reflection, therefore, and seeing no possible escape from the conclusion, he ex claimed, confidently, to his companion, "There must be horses inside!"

Cabbages weighing twenty and wenty-three and a third pounds are on exhibition at Stockton, Cal.

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Among the hurtful consequences of obstructed digestion, is the impoverishment of the blood, and since a deteriorative condition of the vital fluid not only produces dangerous organic weakness, but, according to the best medical authorities, sometimes causes asphyzia, it is apparent that to improve the quantity of the blood by promoting digestion and assimilation, is a wise precaution. Hostetter's Stomach Bitters, is precisely the remedy for this purpose, since it stimulates the gastric juecs, conquers those billious and evacuative irregularities which interfere with the digestive processes, promotes assimilation of the food by the blood, and purifies as well as enriches it. The signs of improvement in health in consequence of using the Bitters are speedily apparent in an accession of vigor, a gain in bodily substance, and a regular and active performance of every physical function.

Why He Wouldn't Marry Her.

Why He Wouldn't Marry Her.

"Marry her! by George! I would if i
wasn't for her confounded nose." "Nose
Ha, ha! What's the matter with her nose Ha, ha! What's the matter with her nose? Is it too short, too long, or crooked—which? You're too fastidious, young man. A woman may be a charming wife and have any one of these deformities." "It isn't any of them, old fellow. The fact is I like Kittle-like to look at her and talk with her—but any closer relationship I could not endure. Her nose is too odorous!" Unfortunate Kittles should use Dr. Sage's Catarrh Remedy, the wonderful disinfecting properties of which instantly sweeten the breath, destroying all offensive odor. To its mild, soothing, and healing effects the most inveterate cases of catarrh promptly yield. Sold by druggists.

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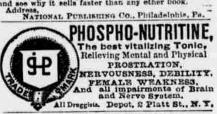
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