SCIENCE AND PROGRESS.

A BRIEF PRESENTATION OF SUB-JECTS OF POPULAR INTEREST.

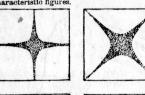
Figures That Illustrate the Vibratory Properties of Bodies in the Form of

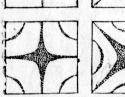


plates. A metal plate is fastened to a wooden support, as represented in the figure, by means of a screw which passes through a hole cut in the middle of the plate. The screw should fit tightly to the hole, so as to hold the plate very firmly. The plate may be of sheet brass, either in the form of a square or of a circular disk.

Scatter some fine annul their come the

e fine sand thinly over the lines having no vibrations, which are called nodal lines. The sand dances off from the vibrating segments and gradually sottles on these lines of rest, forming beautiful and







CHARACTERISTIC FIGURES. pends with one and the same plate on the and also on the way in which it is touched and also on the way in which it is touched with the fingers. If a particular point of the plate is damped, a nodal line is produced passing through the given point, and, at the same time that a special system of nodal lines is formed, a new note results from the vibration. Our second cut represents the figures produced when the plate is stroked with a low in the part denoted by the letter b, while at the same time the plate is damped by the finger being held at a.

Street Railway on a New Principle A street railway about a mile and a half length, on an entirely new principle, is ag constructed in Washington, D. C., by being constructed in Washington, D. C., of the Judson Pneumatic Railway company em power is to be transmitted by compressed air from a central station to a series of motors placed beneath the track at intervals of about 1,500 feet. In a conduit between the rails, similar in construction to a cable railway conduit, revolves a smooth cylinder, or series of cylinders, coupled together at the ends about six inches in diameter. These cylinders are to be kept in continuous rotation by the compressed air motors. An adjustable blade or arm projecting from the bottom of the car and passing through the narrow slot into the conduit sed air from a central station to

thrown out of line with that of the cylinder, by a movement of the lever, the frame is driven along the cylinder by the diagonal travel of the wheels, which is similar to that of the traveling ink distributor on some of the old fashioned printing presses. The speed of the car is regulated by the angle of inclination of the friction wheel axies, the cylinder revolving continuously in one direction at a uniform speed.

Language Teaching by Phonograph. dison's phonograph has scarcely as yet sed the period of "novelty and curiosity," passed the period of "novelty and curiosity," but many practical applications of the instrument have already been suggested, and have in some cases been actually carried out. There is one application, however, which The American Druggist says it has so far not heard mentioned, and that is the instruction in the pronunciation of foreign languages. It is impossible to learn to speak a foreign modern language by soif instruction, since the true pronunciation can only be acquired by personal intercourse with one who is a native or equal to one in linguistic perfection. In the future the publishers of mannals of instruction in foreign languages will find it most likely a paying undertaking to publish a phonographic key of the various exercises, thus enabling the learner to acquire the correct infonation and pronunciation by causing the phonograph to repeat the word or sentence until it has been perfectly imitated by ce until it has been perfectly imitated by

Alcohol and Bodily Temperature. Alcohol and Bodily Temperature. The first effect of alcohol on the system is to accelerate the action of the heart, and also the temperature of the body about 1½ legs. It is this effect which makes it valuable incases of fainting or collapse. The secondary effect is, however, to lower the temperature, which sometimes falls 2 or 3 degs, below the normal point of 98 degs, and the warmth of the body cannot be restored as juickly as it is lost. For this reason drunkerds are more likely to suffer from expoure to cold than temperate people, and the stupor to cold than temperate people, and the stupor of alcohol is apt to pass into the sleep of

The Flight of Ducks and Geese. The Flight of Ducks and Geese. There is authority for the statement that tenvasback duck flies at an habitual rate of 80 miles per hour, which is increased in mergency to 120. The infliard has a flight of 48 miles an hour; the black duck, pintail, widgeon and wood duck cannot do much better. The bluewing and greenwing teels can lo 100 miles an hour and take it easy. The widnesd can fly all day at 90 miles per hour. The gadwall can do 90 miles. The flight of the wild coose is 100 miles per hour.

ALL AROUND THE HOUSE.

Good Methods of Softening and Purifyin Water for Domestic Use.

Some waters possess a degree of hardness that renders them almost unfit for domesti purposes, and a means of doing away with venient property is often inquire

for.
To soften water for washing, a common and very good remedy is the use of carbonate of soda (sal soda) in sufficient quantity to bring down the lime and maguesta, and thus insure the proper solution of the scap to form suda. Only there is too often a mistake made in not allowing time for the soda to bring down the lime and maguesta in a powdery form, which requires from half an hour to an hour when the water is cold, but occurs very quickly when the water is hot. When, as is hour when the water is cold, but occurs very quickly when the water is hot. When, as is commonly done, the scap is put into the water while the time is still in the gelatineus form and diffused in the water, a certain amount of "curdling" will still happen, and the watehed clothes (especially fianness) will have that sogy and unphrasant touch which is caused by the accumulation of the lime and mannests some in them.

magnesia scaps in them.

That it is undesirable to use soda for soft ening water to be used for drinking hardly needs more than mention. The natural hard meets more than mention. The natural naru-waters usually contain quite as much of sa-line matters as is desirable in drinking wa-ter. Soda, however, does not in any manner correct the sanitary condition of a water; on the contrary, it aids in keeping vegetable and animal matters in solution, and unless and animal matters in solution, and unless added in very large excess does not interfere with the vitality of fungous or other germs.

with the vitality of fungous or other germs.
According to scientific authority by far the most convenient and effective mode of purifying larger qualities of hard water for domestic use is the introduction of a definite amount of quicklime, proportioned to the requirements of each particular water. The only practical difficulty in carrying out this purification is the ascertainment of the proper proportion of lime or lime water to be used, so that the water shall neither retain too much of its original hardness nor acquire an unpleasant taste and astringent action from an excess of lime. This can, however, be done quite readily by a few tests with different proportions of lime water, and the very simple trial as to which will produce the least proportions of lime water, and the very sum-ple trial as to which will produce the least "curdling" of soap when ready made soap-suds are added in small proportion. What-ever proportion of lime water or lime satis-fies this easily ascertained condition is the best for all purposes.

While the toque young laddes, it is also liked by older women, to whose use it is adapted by adding strings at the end of the

A Famous Salad.

Mrs. Justice Matthews is said to make a salad that will tickle the palate of the greatest epicure. Her recipe, recently published, is as follows:

Take the meat, free from skin and fat, of two large boiled chickens, cut in dice; with this mix thoroughly an equal quantity of good, white, crisp celery cut in small pieces, three clives, chopped; two teaspoonfuls of capers; make dressing of six spoonfuls of imported clives, chopped; two teaspoonfuls of imported clives, oil, two tablespoonfuls of imported clives oil, two tablespoonfuls of imported clives, the cebox. The part a mayonnaise in the following manner: Break two eggs very carefully and put the yolks into a soup plate, then add, drop by drop, a pint bottle of best clive oil, stirring steadily one way with a silver fork; as the dressing thickens, thin with lemon juice, keeping it of the consistency of rich cream; and salt and cayenne pepper to taste. Make a mound of the chicken salad on a platter, pour over the mayonnaise and garnish with lettines olives, beets and carrots cut in fancy. pour over the mayonnaise and garnish with lettuce, olives, beets and carrots cut in fancy

Cabinet Pudding.

Butter a pudding mold and sprinkle the bottom with raisins, chopped citron and currants; cover this with pieces of sponge cake, then more fruit, and so on until the mold is full to within an inch and a half of the top. Mix in a bowl three tablespoonfuls of sugar and the yolks of three eggs until they are a cream; then mix in slowly a pint of milk brought just to the boiling point, and pour this over the cake, etc., in the mold. Put the mold into a pan containing enough

which has been strained through muslin, is also very good, but if it is not used carefully

Potatoes Fried in Cream

Mix together over the fire half a table-spoonful each of flour and butter until it bubbles, stir in half a pint of hot mik, beatbubbles, str in half a pint of hot milk, beating the sauce smooth, season with a salt-spoonful of salt and quarter as much pepper; use enough of this sance to moisten some cold chopped potatoes, and fry them brown in butter, keeping them pressed together to make a cake. Cold chopped potatoes are nice browned in fat without the sance, and seasoned with salt and pepper.

Draped Furniture In small rooms, where space is important, as is the case in the flats that are becoming so popular even in towns, the arrangement of furniture and tasteful decoration is a matter usually a particularly pleasing effect. Our cut, however, shows a novel cut, hewever, shows a novel arrangement for draping the corner in which the bedstead is placed which is a decided improvement.



WHAT SHALL WE WEAR?

ATTRACTIVE STYLES IN VOGUE IN THE FASHIONABLE WORLD.

The Toque & Shape Popular for Young and Old, and Appropriate for Day or

Evening Went. Prench bonnets, Spanish hats, in toreador r bolers shapes, bugs Empire pokes, coquet-tish little turbans



on the sloping crown and a long fancy pln stuck on the side through the flat folds in front. A rosette of crean colored gros grain ribbon headed with flutings of the same rests against another rosette formed with velvet gofferings. The strings are in cream silk ribbon with a satin edge.

strings are in cream silk ribbon with a satin edge.

Perhaps the most popular of all shapes at present is the toque. There are theatre toques that consist merely of flowers, ribbon and lace or net fashioned into the most charming of all the dainty affairs dubbed evening bonnets. There are velvet toques for afternoon wear, made in soft long folds, with a filagree butterfly, a bunch of berries or an aigrette of small peacock's feathers paged in the loops that trim the front. And for morning wear are the plainer toques, made of the same material as the dress, with velvet folds along the edge and loops, and box plaits that heighten the front, or merely fur trimmed. While the toque is in highest favor with young ladies, it is also liked by older the front, or merely fur trim

adding strings at the end of the erown. With the plaid

on a black velvet turban may be three large rosettes, one blue, one orange and one red.

gated crown is in puckered red velvet, sur-rounded with a diadem brim, composed of a loose velvet torsade, carelessly knotted in the center, and set off with a jet star, in keeping with the jet coronet.

Novel Dress Trimmings.

The galons nearly all have both sides alike. The black guipures are in bold Etruscan designs, the leaflets united often by lace stitches in heavy slik. Cord borders other guipures. Quite novel is a gold cloth, shot with color and bordered with gold, forming a trimming of extreme magnificence; it has the appear-

Watches set in bracelets are worn by every woman who can acquire them. They are intended for shopping. Formerly they came mounted in leather bracelets that buckled around the wrist. But these were rather cumbersome. They are now to be found in both silver and gold bracelets of light and attended to the leather of the lates. both silver and gold bracelets of fine latest tractive forms and on bracelets of the latest fashion. Such a one is a heavy link bracelet with an open faced watch surrounded by diamonds. On others diamonds and other geme are even more lavishly used. In some bracelets the watch is detachable.

There is no sign of the feed with of any of its rich neighbors now. The places where the derricks and tanks stood are grown high with weeds and bushes, and from the mine of wealth the spot has returned to its primitive wildness and worthlessness.—Rouseville (Pa.) Special.

New Idea in Ball Gowns.

Some of the new ball gowns have brocad trains, sometimes replaced by tulle tucked, but the accordion plaited tulle in front is iled with plaited gauze, and scattered over veiled with platted gauze, and scattered over with flowers; hyacinths and similar blooms answer best, and lilies of the valley. Fringes of buds sometimes adorn the ends of sashes, as in a black spotted tulle. Pretty women and flowers would seem to be naturally asso-cited and these flowers decays are more than ciated, and these flower dresses are more than ordinarily attractive.

A Pretty Woolen Gown.

A pretty woolen dress lately seen was gray with a stripe of feu, which is a sort of reddish deaf leaf shade. These stripes were arranged in a slanting direction instead of straight, and the bodice, made on the cross also, quite plain and high, appeared to be molded on the figure at any visible fastening, but in reality was attached with hooks on the shoulder and r thearm. The sleeves were gray vervet, d, and the collar and waistband em-

Gold jewelry is coming in again. Large full looped bows of silk are the cravats worn by boys in kilts or short trousers. The little flexible purses of woven silver or chamois, with coin clasps, are convenient and iked by many women.

Velvet flowers, especially roses with long stems, will be used on some of the round hats for late winter wear.

Lace pins are giving place in some instances to small, round gold brooches, exquisite in lesign and beautifully wrought. Black Russian net appears in a new guise, and a pretty kind is studded with large inter-woven spots.

The portraits in enamel and the paintings on ivory that were in favor last year are even

A ROMANCE OF RICHES.

The Town of Rouseville, Where an Acr. Was Werth \$2,000,000.

The Town of Rouseville, Where an Acre Was Worth \$2,000,000.

This is the oldest town in the Pennsylvania oil regions, having been the first town to spring into life under the wonderful stimulus of the oil excitement. It is located on Oil creek, two and a half miles above Oil City, and it was here that the third well was drilled for oil, and on the McElhanny farm, a short distance above Rouseville, the first real "spouter" was struck. This was the famous "Fountain well," which flowed a stream of oil over the top of the derrick, high above the tallest trees in the neighborhood, and started the great rush of people into this wonderful region. This was once a great oil metropolis, with banking offices, scores of hotels and all the commercial facilities of a city. Being so near to Oil City and Petroleum Center, its population never got above 10,003, if it reached that figure, but it was one of the most active cities in the belt of oil. It was surrounded by some of the wonderful flowing the flat folds in front. A rosetto of ribbon headed with sts against another ret gofferings. The ribbon with a satin lar of all shapes at fortune within sight of this queer out town. The first great oil fire was here when the Rouse well was burned, and Henry Rouse, after whom the town was named, was burned to death, along with sixteen other men. The story of this tragedy has been told in these columns and need not be repeated. It was the most appalling tragedy in the history of oil fires, and, being the first, it created a wonderful sensation. There has been talk of erecting a monument on the site of the fire to honor the memory of the sixteen men who were the first to perish in the development of

receing a monator of the sixteen men who were the first to perish in the development of the oil region. Col. Drake, who drilled the first oil well, has no monument yet, and the citizens of Rouseville do not believe that either monument will ever be erected.

If oil were found in a literal lake, instead of in a porous rock, Rouseville, like Petroleum Center, would have been situated over a lake of oil. A number of big wells were struck within the limits of the town, and great "gushers" surrounded the town on every side. Not only were the Oil creek flats here wonderfully prollife, but Cherry run, which empties into Oil creek at this point, produced some wells only second in richness to the Oil creek wells. Some of the largest of these were near Rouseville, and it largest of these were near Rouseville, and it largest of these were near Rouseville, and it can be said that the wells in the vicinity have produced enough oil to have submerged the town. The money value of the oil taken from the ground near Rouseville is above \$50,000,000. The Story farm alone has produced about \$10,000,000 worth of petro-teum, and still has a small production—perhaps 100 barrels per month. The first well deliberate Rouseville the third on the creek. haps 100 barrels per month. The first well drilled at Rouseville, the third on the creek turban may be three large rosettes, one blue, one orange and one red. At Fig. 2 is shown A VELVET TOQUE. a velvet toque for morning or afternoon wear. The soft, elondown and its spring would lift the tools for the next stroke. This was called "tramping a well down," and as many of them were tramped down to the depth of 500 and 600 feet the operation was very slow and tedious. No less than 150 wells were put down on Oil creek in this crude way before steam was ap-plied to the work. Where three months were often required to drill a well then, one is drilled now in ten days and even less. The history of some of the big wells near

drilled now in ten days and even less.

The bistory of some of the bigs wells near Rouseville is the history of many, and will serve to illustrate the amazing richness of the oil belt in this section. The Reed well, on Cherry run, was struck July 17, 1864. It was located on an acre of leased ground. The land interest was to receive one-quarter of of extreme magninence; it has the appear ance of cloth of gold and color laid on gold, and belongs to that period when Venetian dames hardly knew how to be sufficiently splendid in their attire.

Some of the oxidized steel and gold, and some of the oxidized steel and gold, and from starting the drill \$785,000 had been realized from it by the working interest alone. ang from the bottom of the car and passing through the narrow slot into the conductive carries at its end a group of friction wheels, which may be pressed down forcibly upon the upper quarter of the revolving cylinder.

The plane of revolution of these friction wheels may be changed by an ingenious device, controlled by a lever, to be operated by the driver of the car. While the friction wheels revolve in the same plane as the cylinder by a movement of the lever, the frame is thrown out of line with that of the cylinder, by a movement of the lever, the frame is driven along the cylinder by the diagonal ravel of the wheels, which is same in a group of the wheels, which is same is a rest, but the moment the axes of the wheels are long to the conductive fine, when the stain ought to be entirely gone. Diministry the diagonal ravel of the wheels, which is same in a group of the wheels, which is same in a group of the car. While the friction wheels revolve in the same plane as the cylinder by the diagonal ravel of the wheels, which is same in a group of the car. While the friction wheels revolve in the same plane as the cylinder by the diagonal ravel of the wheels, which is same in a group of the car. While the friction wheels revolve in the same plane as the cylinder by the diagonal ravel of the wheels, which is same intended to border the hems of great beauty, and are intended to border the hems of skritzs and to alone the cohoics. Crochet tinsel done the cohoics. Crochet tinsel of the owner had altered to border the hems of skritzs and to alone the cohoics. Crochet tinsel done the cohoics. Crochet tinsel done the cohoics. Crochet tinsel of the made in the delt to border the hems of skritzs and to alone the cohoics. Crochet tinsel done the cohoics. Crochet tinsel done the cohoics. Crochet tinsel done the mode of remarks and to the owner had altered to border the hems of skritzs and to alone the cohoics. Crochet tinsel the mine the alended to border the hems of skritzs and to alone the cohoics. Crochet tinsel the mi \$2,000,000 were realized. This is pernaps the richest acree of ground ever developed in the oil country. The original owners were men of small means, and all became wealthy from this single transaction. Even the Philadelphia and New York companies who bought them out at such extravagant figures realized handscapily from their investment. ized handsomely from their investment. There is no sign of the Reed well or any of

Billy Emerson's Team.

I joined a group in the Sturtevant house, in the center of which was Billy Emerson, the minstrel. He was relating to his listeners some of his experiences on the road. "In my early days," he was saying, "I was a member of a little band of minstrels whose prodesty was in parfect keeping, with its modesty was in perfect keeping with its size. We only played the smaller towns, size. We only played the smaller towns, and every afternoon, rain or shine, we gave our parade. As I was the star I insisted that, in order to give tone to the company, the manager and I should head the procession in a carriage. Well, I had my way, and there was always a scramble on the manager's part, as soon as we reached a stand, to get the best looking carriage and

team that the town afforded.

"We were to play in a little town out west one night, and had secured from the pair of horses which were also used in the town hearse. Well, there was a funeral that day, but the stable keeper, who was an town hearse. Well, there was a funeral that day, but the stable keeper, who was an Irishman, promised faithfully to be on hand at the tavern by 2 o'clock. The members of at the tavern by 2 o'clock. The members of the company, surrounded by a crowd of gap-ing rustics, were standing out on the plank walk waiting for the start, and I was on the porch waiting impatiently for 'me coach.' At 1:50 o'clock I looked down the road in the direction of the stable and discovered an open carriage with two horses on a dead run, driven by our Irish friend, who yelled out to me as he reined in his nanting stade before me as he reined in his panting steeds before me as he remeat in his pating steeds before door: "Av yez thought I wasn't coemin', sure yez don't know Pat Shea, for, be hev-ins, I'd been here on toime av I'd a had to brought the corpse wid me!"—New York Star.

A gentleman said to a large crowd of peo-ple that was pouring out of a public hall: "What's going on inside?"
"A humorous lecture," was the reply.
"Is it over already, it's only 9 o'clock?"
"No," shouted the crowd, "it's only about half over."—Epoch,

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VOL. XXV

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An A

MORNING

- NOON

don Free Press is selection of Mr. Tho candidate of the Liber on Sund sex. If Mr. Purdom v \$600,000 approval of the orghim. M. P. P. for the div doubts as to his ability of the majority of the Riding. As it is, ly bright. But is it no the part of our contemp campaign by misreprese at the Liberal gathering Free Press would have that the convention wa one section favored a N a London township mar Mr. Purdom, whereas t delegates unanimously dom as being the most

> sentation in the endeave TOPICS OF

back the constituency

makes a bad start, but i Purdom that it has to

principles.

The following new p Algoma; Harvey, Renf (re-opened), Wellington On the 28th instant North Brant will mee

select a candidate to con the approaching Province Lady readers will be that violet is the favorit costumes in Paris. Al from a reddish to an

templated changes in that "Young folks care of course, than for the gives them to gossip whe hearing." What a funn where mamma takes no Burns' anniversary by a eral oncert in the Steinway

general shorts in the Steinway improvinst. The Balmoral chof a sphusic. London Scotchms sidereding the same notable ever Lordinion, but they will have Lording or the 1889 celebratic half as well as well as the second of the se Manitoulin Expositor: us this week from Austr days. The distance is

Yet letters fro

Manitowaning take twelv miles. At the same rate take letters 65 years Australia. The Postoffic serve credit for their inge An Ottawa dispatch say widespread comment on t name of Mrs. Foster, wife

name of Mrs. Foster, wife of Finance, does not appear guests invited to the state Hall Saturday. Gossips their Excellencies being their Excellencies being their Excellencies being the follow of Majesty in England in no court those who have been married. There has been gossip on this subject genthe facts simply are the people, well known in so on Mrs. Foster, including Cabinet Ministers, and might ordinarily be expectave not. It is said Mrs. quiet intimation to be sen quiet intimation to be sen on to the dinner was not

Found Dead in SHELBURNE, OHL, Jan. kins, son of Mr. E. Wilkin employed by J. N. Hooper-years, was found dead in the Royal Hotel Saturda ceased was in his usual goobefore. Kunze Captured by a

CHICAGO, Jan. 20.—Joh the men conviced of the Cronin, but who was grant was released Saturday on museum manager signed Kunze in return for the fav the museum.

\$1.000,000 for a Baptist
Chicago, Jan. 20.—Mai
donated a \$100,000 site h
bosed new Baptist Unive
fills the last requirement of
of the university, J. D. Roc
king. Mr. Rockfeller ga
found a university on condi
000 more should be raised at
the total, \$1,000,000, shot
purchasing the site. The
Field's land with the money
more than completes \$1,000
Successful Swim
New York, Jan. 20.—

New YORK, Jan. 20.—
and Charles Falkenheim are awindling the Presidental Company. The men were ployed as agents at the New the company, but were dischonesty. They, with four of the Utica, and were employed the branch office of the company to the branch office of the company.

rong was suspected. Dr. La Grippe headaches insta-doffman's Harmless Heada The Royal Cure for Byspe