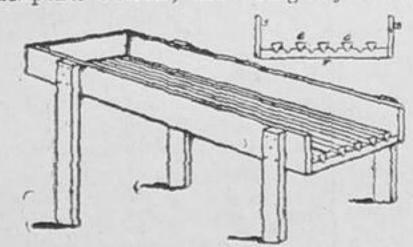
THE FARM.

A Serviceable Potato Sorter.

In sections where large quantities of potatoes are raised, some kind of a sorting apparatus is a necessity. The work of picking over potatoes is something that costs too much to be done by hand, and yet potatoes classed into even sizes always sell better than uneven lots. In the great centres of commercial production of this | condition. crop, assorting is always done by some sort of a machine, which varies in the different sections, but are almost always homemade. The one herewith illustrated is in use by many potato planters, and is a simple and inexpensive affair, and being adjustable it



DEVICE FOR ASSORTING POTATOES. will be found more valuable than many other designs. The general form is usually made eight feet in length fourteen inches wide at the bottom, and eight inches at the top, the sides being six inches high, the whole supported upon four legs nailed to the sides. Six strips eight feet in length, before the end of his tcentury trains will be three inches wide and one inch thick form the bottom of the sorter seen in the sketch. The strips, a, are beveled to a sharp edge at the lower side, and the rest in V-shaped notches cut into the supporting strip, r tion. The Czarewitch cut the first sod at By taking out or adding to the supporting Vladivostok on May 24th, 1891. The length strips and dividing the spaces, larger or smaller potatoes will pass into different boxes placed along the length of the sorter, the larger ones being discharged at the low- | ian Pacific. On the eastern division trains er end, the form of the bottom strips preventing clogging. An incline of twenty interior, and it is expected to have the entire inches in eight feet will prove about right, line in operation before the end of this year. although the form of potatoes to be screen- | The Western division is also nearing comed will have much to do with this, a long pletion. On the middle section, where the tuber requiring a steeper incline than a round one. If the potatoes are to be placed cellar window, and when the tubers reach screened for market or planting. This will that rails can be laid from three different four hours. prove as effective as hand sorting, and incur but one-tenth of the expense.

Separating Cream.

cans has not that delicacy of flavor of but ter from cream raised in open cans, and is readily detected by a critical observer. A method' is fast coming into use which is simple, inexpensive, a saving of ice and points intersected by the railway; colonilabor, preserves the quality of the open can be encouraged, and scientific expeditions and saves time almost as well as the are to be organized for thorough study of mechanical separator, without the expense. | the country. For these purposes, along

The milk, warm from the cow, is strained into a can till it is half full; then fill the can with cold water, which aerates milk, to about 70° F., even in the warmest of surface in less than three hours.

by a faucet from the bottom of the can till the cream appears, which is then drawn stands sadly in need of the civilizing ininto a separate vessel. As the cream is fluences this vast enterprise will bring. In separated in less than three hours, the can opening up vast regions for settlement and or cans used for the morning's milk are as fields for commercial and manufacturing | feared. ready to be used for the night's milk; all enterprise, it seems probable that the that need go into the house is the sweet | world's currents of migration will be turncream, thus lightening the labor there. The ed in new directions. It may, therefore, diluted skim-milk is fed to the pigs, the have a considerable effect upon the future costly butter fat extracted from it being of our own country. replaced by the cheaper fat of corn meal, in such proportions as are needed to teed to growing or fattening stock.

No time is lost, no labor required, nor expensive machinery to keep in repair when using the dilution process. As soon as the milk is mixed with water the separation goes on naturally, while the farmer is attending to other duties. This quick, inexpensive process, requiring no ice even in the warmest weather, enables the farmer it carried to a creamery. It also enables those farmers who are supplying the large markets to maintain a fair price for their milk. They can manufacture it into but- esteem and confidence of the English bankter for a time and reduce the quantity of er. the milk sent to market till it will command a fair price. The farmers can control the price of milk if they wish, instead of the contractors dictating what they creature. I wish I could persuade you to shall take. Any improvement in dairying give me her hand." that will cheapen the cost of production will run up the profit, the same as an in- lously you must allow that Miss Baring | chief advantage he enjoys over his big crease in the selling. Good pastures are an essential element in profitable dairying. Without manure no good farming is poss-

Wintering Over.

It is time that the stock intended to be wintered over should be selected out, so that the rest can be marketed as soon as possible. As it is necessary, in order to realize a fair profit, to rather push the growth and gain with hoge, it is of no advantage to winter over only those needed for breeding, or that with good treatment will make a satisfactory gain. It is true that where hogs can be given a good range, they will live even during the winter on a living is all that is necessary, a considerable number might be kept. But with hogs rather more than with any other class of stock it is very important, if the best profit is realized, to keep in a good thrifty condition. If this is done during the winter it will be necessary to feed more or less, and feeding increases the cost.

with a good shelter, so that the hogs can be kept fairly comfortable without being obliged to feed too much grain to maintain animal heat, the better plan, in a majority of cases, will be to crowd the feel n during of it before." the fall, and get all of the h r, exce t the

breeding animals and the fall pigs, ready for market in good season. A good pig of any of the better breeds can be made ready for market at any time after they are five months old. To get the most out of them, however, it is very essentia' that the feeding be liberal, giving all that they will eat up clean, in order to push the growth as much as possible. With all classes of stock it is very important to have it in as good a condition as possible when sent to market, and, while it is not always advisable to feed to full maturity, yet it does pay to feed until the anima's are in a good marketable

Ly selecting out reasonably early a much better opportunity is afforced of feeding when the conditions of growth are most Cambridge, Mass. They were about an favorable. It is often the case that, with a little extra care, a pig can be made ready for market considerably earlier than would otherwise be the case, and with pigs, at this time, it is often best to push the growth 4,000. and market rather than to winter over, even if necessary to push the growth considerably in order to secure the desired condi-

THE SIBERIAN RAILWAY.

It is the Most Gigantic Railway Undertaken Ever Planned.

It is estimated that the great Siberian railway, which for the past three years has been in progress, will cost something like a couple of hundred million dollars. The Russian Government is pushing work on it with such energy that it is probable that running from St, Petersburg through to Vladivostok on the Sea of Japan. Six years is the limit for the time of construcof therailway when completed is to be 4,785 miles, or about twice as long as the Canadare running from Valdivostok well into the conditions are naturally the most difficult, | lieved him. and where work was begun last year, it is ! points at the same time, instead of from prove to be very abundant.

Butter made from cream in submerged sums upon auxiliary enterprises for the development of the natural resources of Siberia, which, Mr. George Kennan has told us, are enormous. Branch lines are to be built, the rivers are to be improved, and steam navigation established from zation is to be assisted, iron works are to the line of the first division alone 14,000,-000 rubles, or about \$10,500,000, have been

appropriated. The political and social effects of this and immediately reduces its temperature stupendous enterprise-which, indeed, is the most gigantic railway undertaking ever planned-will be of tremendous moment. weather. All the cream will rise to the Its effect on the Russian Government itself will be likely to be revolutionary. The The combined milk and water is drawn great industrial development that will follow must be reflected in changes in the social and political fabric of Russia, which

WON ON PURE NERVE.

How Bank Clerk Labouchere Obtained a Bride and a Partnership.

In 1822 Mr. Labouchere, a relative of the present M.P. of that name, was a clerk in the banking-house of Hope, of Amsterdam. to convert his cream into butter at home One day he was sent by his patron to Mr. without the expense of carrying or having Baring, the celebrated London banker, to negotiate a loan. He displayed in the affair so much ability as to entirely win the

> "Faith," said Labouchere one day to Baring, "your daughter is a charming

clerk." "But," said Labouchere, "if I were in partnership with Mr. Hope?"

"Oh, that would be quite a different thing; that would entirely make up for all deficiencies."

Returned to Amsterdam, Labouchere said to his patron:-

"You must take me into partnership." such a thing? It is impossible. You are without fortune, and "-

"In that case the affair would soon be

settled, and so you have my word." Fortified with these two promises Labouchere returned to England and two months after married Miss Baring, because Mr. Hope had promised to take him into partof Hope on the strength of that promise of

Her Sorrow Changed to Anger.

"Be mine, sweet one," he implored as he knelt at her feet.

"I am serry to give you pain," she answered, "but it cannot be. Cease to think now. He can't sleep a wink." Unless one is reasonably well provided about me and find some other girl who will

make you happy." "That's a good idea," he said, as he arose and dusted his trouser knees with his handkerchief; "I was a fool not to think

Then she was mad.

marriage.

ITEMS OF INTEREST.

Yellowstone Park contains an area of 3,575 square miles.

At a single bakery in Boston 10,000 pies are baked every day.

Air-brakes on trolley cars, to prevent accidents, has been suggested.

Telegraph companies in Chicago think of substituting girls for boys as messengers. Parrots are employed at some of the

readroad stations in Germany to call out the names of the towns.

Although the Suez Canal is only eightyeight miles long, it reduces the distance from England to India, by sea, nearly

| inch in length, and quite lively.

Stuffed white doves, for funeral emblems, are prepared in large numbers in Jersey City. Their bodies are sold to French restaurants.

Last year 3,000,000,000 gallons of beer were drank in Europe. Germany imbibed 800,000,000 gallons were consumed.

An ice-cream dealer in Eastport, Me., is a bicycle rider, and wheels around the city with a big advertisement of his business on his wheel. He believes in advertising.

The new rifle used by the Italian Army sends a bullet with such force that it penetrates a log of solid ash to a depth of five inches at a distance of three-quarters of a

In one week a condor has been known to entirely devour a calf, a sheep, and a dog. It often floats for half an hour in the air, describing large circles, without moving a Food should never be allowed to cool in

copper cooking utensils. When fruit is removed hot from the vessels, the acids from the fruit do not combine with the copper to and, to use a well understood chemical make a poisonous compound.

John O'Leary, a gardener, of South Norwalk, Conn., took a long drink from a garden hose, and in a few moments felt | are explosives, and are insoluble in alcohol something queer in his stomach. He had swallowed a live frog. A physician re-

Several pupils of the Polytechnic School, in the cellar one may shovel directly into believed that construction will be finished in Paris, were kept in after hours, but the sorter, which should project from the by 1898, or two years earlier than the time made their escape through a trap-door originally set. The reason for this is that, which led to the street sewers. Here they the cellar bottom they will be properly by utilizing river navigation, it is found were lost, and wandered around for twenty-

> A wise old farmer in Red Bank, N.J., but one, as was at first supposed; and also has discovered a certain preventive of that, most unexpectedly, local workmen | hydrophobia. A mad dog rushed at him, with threatening fangs. The farmer dex-The Government proposes to spend large | terously seized the dog by the throat and choked him to death.

Miss Carrie Blood, of Charlestown, W. Va., is a close student of natual history. To add to her store of information on this subject she was attentively studying the formation of a snapping-turtle, when it bit off the tip of her nose.

When Voltaire began the study of the English language, and found that "ague" was pronounced as two syllables, and "plague" as one, he said that he wished that half the English had the first disease and other half the other.

An electric rat has been invented by a Brooklyn man. Cats were in the habit of having nocturnal picnics in his yard. He made his electric rat move slowly around the place, and as each cat pounced upon it, the cat was shocked to death.

Miss Grace Cohee, of Newbern, Ind., to play a practical joke upon a visitor at her house, Mr. Con Beck, arrayed herself as a ghost, and confronted him in the dark. He fired two pistol shots at her, and both bullets entered her body, and a fatal result is

wine is squeezed from mountain berries in spools is practically the summer, and used as a beverage in the winter, when the water is frozen.

come often. He has seventeen brothers-inlaw, sixteen uncles, fifty-seven cousins, and | tion-in which by a well-known treatment fifty-eight nephews and nieces.

John Merkert, of Morristown, N. J., discharged a gun in a hornet's nest. The hornets dashed at him, and he took retuge in a cluster of bushes infested by a lot of bees. The bees and hornets attacked him so viciously that soon his eyes were closed and his face was swelled to twice its natural size.

Bees are being trained as letter carriers by an English farmer. A bee is taken away from home, a letter printed by microphotography is gummed to his little back, and he is thrown into the air. Home "Young man, you are joking, for ser- he goes, like a carrier pigeon; and the could never become the wife of a simple | brother is that he cannot be seen in time of war, or, if seen, could not very well be shot.

Work of the British Post Office.

According to the British Postmaster General's fortieth annual report, issued as a Parliamentary paper, the total number of letters, post cards, book packets, circu-"My young friend, how can you think of lars, samples, newspapers, and parcels delivered in the United Kingdom during the "But if I become the son-in-law of Mr. | year ended March 31st is estimated at 2,-853,534,000, an average of over 74 to each person, and an increase of nearly 21 per cent. compared with the previous year. The estimated total revenue for the year was £10,734,885 in the postal department, and £2,579,200 in the telegraph department. The total expenditure was £10,511,comparatively small amount of food, and if nership, and he became allied to the house 476, of which £7,757,423 had reference to the Postal Department, and £2,754,023 to the Telegraph Department.

Easy to Cure but-.

Doctor-" So your husband is ailing again?"

Mrs. Slimpurse-" Yes; it's insomnia

"Ah, I'll soon cure him of that." "Yes, I am sure you can."

"Thanks for your confidence. He is arm around her. He was mistaken. worried about something, I presume." "Indeed he is, poor mar. He lies | self." awake all night wondering how he is ever going to pay your last bill."

ARTIFICIAL SILK.

A Swiss the Inventor of the Process which Takes the Silk Worm's Place.

Bradford, England, has sent to the State Department a report upon the attempts that are now being made to manufacture artificial silk. His report contains some very interesting points upon the progres made. He says that a company is now being promoted in Bradford for the manu-A shower of frogs recently fell in facture of artificial silk. Patents have been taken out in the United States, and it is proposed to establish a company for the purpose of selling rights. The inventor of the process is Dr. Frederich Lehper, of Zurich, Switzerland.

"At the office of the Company," says Mr. Meeker, "there is shown daily the 'spinning frame' in operation, and one can see the liquid contents of a pot on top of the frame turned instantaneously before almost half of it. In the United States, his eyes into what appears a pure silken roe and Clark streets, Chicago. varn or thread."

The Consul gives the following description of the process of manufacture: "All vegetable fibres may, by a treatment by acids and alkalies, be reduced to what in farm 16 miles from Grand Rapids. the commerce of chemistry is known as cellulose. Cellulose is, indeed, made from wood pulp, the ruins from cotton, jute and other spinning industries, etc., for a variety of commercial purposes. And it is this material which is the basis of artificial silk. By direct combination with nitric acid it is converted into nitrate, and if a small quantity of sulphuric acid be also added, the latter combines with the water, | mend. phrase, 'splits off.' The highest

NITRATES OF CELLULOSE

ether. The pyroxyline nitrate, or lower nitrates, are less explosive and are soluble in alcohol ether. Ordinary pyroxyline dissolved in alcohol ether is gelatinous in character, but wanting in viscosity. A solution containing, say, more than seven per cent. of cellulose is, however, too gelatinous to be readily workable. It is at this point where Dr. Lehner's special treatment of the pyroxyline comes in. By the addition of diluted | church-has been organized in the States. sulphuric acid to the alcohol ether he breaks | The most of these seceders from the Roman down the nitrate into bodies of different | Catholics are Poles. physical character, but of the same chemical character, and consequently is able to obtain a twelve per cent, solution which is perfectly fluid and workable under the simplest conditions.

"The process of the preparation of this fluid is a purely chemical one. It is in the subsequent treatment of this fluid and its conversion into a textile fibre that the main | glass was taken out at the elbow. interest centres, from an industrial point of view. This process is shown in operation | Mrs. Milton A. Baker, "possibly to upon a machine which is a modification of | wealthiest negroes in Texas," are now makethe ordinary flyer spinning frame. The ing a tour of the principal cities of the fluid, a muddy, yellowish substance, is Old World. contained in a glass jar, from which it is conveyed through pipes to a small row of small bent glass tubes, each having an ex- to 110 pounds and remains in that condition tremely fine nozzle or orifice. These tubes for a week, after which he regains his origiare arranged in a shallow trough of water, | nal weight. the orifice being beneath the water level. As the fluid leaves the nozzle the water removes sixty per cent. of the solvent, and the fluid immediately coagulates, and is drawn off in a remarkably fine filament of promoter of many of Omaha's public buildbrilliant lustre and, when dry, of great tenacity. Half a dozen such filaments are gathered together and spun precisely as years ago in Savannah and recently dissilk or wool is spun, only without the covered by an heir of the collector, has redrafting arrangement, and at a speed in vealed a number of valuable issues, some of accordance with the twist required. In them worth \$1,500. It has been proved that the monkeys of passing through the spinning frame it the mountain regions of China actually rapidly dries and becomes quite sorid, and make pottery, and use the jars to store in the process of drying the remainder of wine of their own manufacture. The the solvent is removed. The yarn on the

INDISTINGUISHABLE FROM TRAM SILK,

If the Prince of Wales forgets to make a except by microscopic or chemical examinabirthday present to each of his near rela- tion. It is, however, in this condition, tives, he is soon reminded of his negligence. when perfectly dry, a highly inflammable No wonder he is bald, for their birthdays substance, and it therefore requires to go he was uninjured. through a third process-that of denitraby ammonium sulphide the nitrate acid is extracted, after which, when the yarn is again dried, it is practically non-inflammable. It is, indeed, less inflammable than cotton or rhea. Chemically, the yarn when denitrated approximates very closely to silk itself. The lustrous character of the material depends upon its transparency and its cylindrical construction. The yarn can be spun to any thickness of count, and a thread, it is claimed, is of even diameter throughout, unbroken, and it may be produced of unlimited length. Indeed, once the spinning frame is properly started and given a continuous supply of the cellulose nitrate, are entitled by law to \$1,000 exemption. the operation of spinning is practically automatic and may be continued indefin attempt will be made to levy the tax.

"Samples of yarn, furniture fringes and braids, brocaded silk handkerchiefs, pongees, gimps, sewing silk, etc., dyed in a great variety of shades, were inspected and handled by many gentlemen well able to estimate their commercial value, and the general opinion as to the brilliance of the effects produced was favorable. The artiout any impairment of their colors.

"It should be stated that the manufacturers and textile experts of Bradford have no confidence in the usefulness and practicnize its utility. I have questioned a dozen in St. Petersburg. others whose experience in the trade ought to make their opinions valuable, and they have, without exception, stated their belief that the invention would not prove a success.'

Something Unusual.

know there was a little i in the alphabet,

it's the first time I've heard of it."

ITEMS OF INTEREST ABOUT THE BUSY YANKEE.

Claude Meeker, United States Consul at Neighborly Interest in His Doings-Matters of Moment and Mirth Gathered

From His Daily Record. The largest tobacco warehouse in the world is at Louisville, Ky.

There are 13,000,000 men of military age in the United States.

A sufferer from asthma at Glendale, Pa.,

has not slept in a bed for 10 years. The railroads of the United States have present debts amounting to \$11,000,000. At the rate at which Texan timber is be-

ing cut the supply will last only 15 years. Mrs. Henry Ward Beecher was 82 years old Sunday. She is enjoying fairly good

The business of sweet corn canning has of late developed a new industry in the dairy districts of New York.

A syndicate of capitalists is to build a \$1,000,000 theatre near the corner of Mon-

The Rev. Dr. Edward Beecher, Henry Ward's eldest brother, celebrated his 91stbirthday anniversary Monday.

Thomas A. Garfield, the only brother of the assassinated president, is living on a Mrs. George W. Childs, widow of the Philadelphia editor, has arranged for the

building of the palatial mansion in Washington. The teachers of Junction City, Kansas, have been forbidden by the local educational board to attend more than one dance per

Miss Frances E. Willard suggests a Christian theatre-one conducted in a way that religious papers could advertise and recom-

The United States Government has cut down the appropriation for the Port Orchard dry dock on Puget Sound from SS6,-000 to \$45,000.

E. P. Bickell, of Cincinnati, became a raving maniac while on a train near Drayton, Ohio, and was subdued only after a desperate struggle. According to the Society for the Preven-

tion of Cruelty to Animals there has been but one mad dog in New York City for twenty-eight years. A new church—the American Catholic

The New Jersey society of Cincinnati devotes the income of a fund of \$30,000 for the marking of places in that state made

Thirty-five years ago Mrs. Milton Steven son, of Georgetown, Ky., ran a piece of broken glass into her hand. Last week the A Texas newspaper says that Mr. and

historic by the war of the revolution.

It is said that a man at Heming's Cor-

ners, Tenn., shrinks once a month from 180 Captain Kent, a pioneer and wealthy

citizen of Omaha, has been declared insane and removed to an asylum. He was the ings and parks. An old album of stamps collected thirty

The United States Credit System Com-

pany of Newark, N. J., which insure merchants against bad debts, is in the hands of a receiver, its capital having recently been impaired to the extent of \$200,000.

Price Goldby, who lives near Trimble, Tenn., was under a tree which was struck by lightning. When he recovered consciousness his skin was as black as a negro's and has been so ever since, but otherwise

At Greenwood, Ind., the women starved out the only saloon in the place by opening an ice cream parlor next door and operating it so as to make a chance to shake hands with every male acquaintance who passed it on his way after a drink.

The house in which Lindley Murray, the famous grammarian of early American days, was born is still standing about twelve miles south of Harrisburg, Pa. It is a somewhat pretentious log-house, with three rooms and a sleeping loft.

In Massachusetts the experiment of taxing bicycles is proving a failure. Nearly half the wheels are owned by minors, who In Boston, which has 15,000 wheels, no

In Jefferson County, Wisconsin, the in troduction of dairying has been followed by an increase in the value of farm lands from \$16 to \$60 per acre and in a reduction in the number of mortgaged homesteads from sixty to seventy per cent. of the toftal.

Alexander S. Blaine, of Simpson county, Kentucky, left only one request when he ficial silk materials will stand washing and died. That was to be buried in his slikironing without losing their lustre or with- | lined broadcloth coat. His maiden sister, with whom he had lived many years, wouldn't allow the request to be complied

The capitol at Washington has cost more ability of the new precess. It was offered than \$30,000,000. It covers three and a to the Manningham Silk Mills (Lister & half acres, the dome is 307 feet high and Co.,) the largest silk manufactory in Eng- 135 in diameter, and is exceeded in size only land, before it was introduced to the by St. Peter's in Rome, St. Paul's in Longeneral public, but they declined to recog- | don, the Invalides in Paris and St. Isaac's

Mrs. Lucinda Bradley, a colored woman, died at Bentonville, Ohio, recently, at the age of 93. She has been a slave, belonging to Henry Clay, until she was nine years old, when Clay sold her. After various transfers she was bought by William Bradley in 1859, who took her to Auams County,

He was so self-conceited that he didn't Ohio, where they lived as man and wife. Cincinnati's fire department has adopted and yet he was sweet on a girl. He thought an innovation in the way of a portable teleit would be all right, and tried to put his phone which is carried to all fires and connection made with wires running to the "Oh, excuse me," he said, "I forgot my- aepartment headquarters. This enables the chief or the marshal in command to "Well, she replied sharply, "if you did, keep in constant communication with the headquarters of the organization.