on the bull of his ship before launching which showed her the beginner with fifty dollars now has a property representcross sections or frame at any given point is laid out on the practical, strictly reliable in all bis engagements, he is a remade to correspond with every part of the frame. These bis being rough and coarse, and many can testify to his conpatterns are now in turn placed upon an iron floor, covered siderateness. One who bas known him for years remarked, all over with square holes intended to receive iron pins, and and the figures prove it, "If Mr. Roach should die to-day it its curvature accurately marked in and out among the holes, would be a calamity to New York and to Chester." Many which are then supplied with pins and bolts. The angle things have been said about him in reference to "monopoly" iron intended for that particular rib or part of the frame is and "protection," but it would seem that a man who has into permanent shape. Two are made alike, corresponding the country in ship-building, and to give "protection" to for the opposite sides of the ship; so of every part of the the hundreds for whom be finds employment. The portrait mill, with equal care, into the required curvature for each bis personal appearance. part of the sbip, sharp or gradual as to the position required. Mr. Roach is known to be a man of decided opinions in ready shapen to be laid in place, where and when alone it can sketch would be quite incomplete did we not give our readbe placed, and then riveted to the frame.

The drawing room of this yard presents to the visitor perother part. It has the appearance almost of an art gallery of printed in this week's Scientific American Supplement. marine subjects. Every object the eye rests upon is a reminder of sbips. The walls are covered with pictures and models of every form of ocean steamer, steamboat, and yacht built or now building, these models beautifully executed, while the cases are filled with working drawings of every part of the sbip, finished in the most elaborate manner. The party for whom the ship is to be built indicates generally what is to be her carrying capacity, and possibly expresses some fancy fancy.

On another page we give a sketch of the City of Peking, yard, and of a design in construction which has been largely followed, and has received very general commendation. There are in process of building here six or more iron ships, designed for foreign trade, the work as well done as can be resisting varproduced in any shipyard in the world. The United States nisb. Wires for ironclad, Puritan, lies on the stocks in an unfinished condition. It seems incomprehensible that the Government ed to the bottom should leave so magnificent a sbip in an unfinished condition: for so many years. Near by, on the stocks, and almost tray, and to the complete, is the Pilgrim. She is built with a double hull, that is, two iron hulls, one somewhat smaller and tray. The batinside the other, braced together. This gives increased tery may, of strength on the principle of the tubular bridge, and safety in case of injury to the outer hull. Her length over all is 390 feet, 87 feet beam outside the guards amidship, and 12 feet ber of trays, and a series of batteries may be connected draught, with a proposed speed of twenty miles an hour. The American ensign, presumably in proportion, is to be 30 x 20 feet. She appears on the stocks like an iron mountain, and that, too, without saloons or deck bouses. As the shaft implies the engine, so the work turned out implies the magnitude of the works, the capital, skill, and enterprise of its organizer, as well as the labor, skill, and materials utilized. The average number of laborers in this yard is 1,800 to 3,000.

During the past ten years the firm of John Roach & Sons has built and delivered over one hundred iron steamers. That is to say, ten per year on an average, that is, one in a little over a month each-building the ship and the machinery; these representing contracts with the South American States, Spain, and our own people.

Ship building in Chester was practically unknown until Mr. Roach established bis yard there, some ten years since. And now, as we have said, he finds employment for 1,800 to 3,000 men, with all that is incidental to such employment for the benefit of a place.

American iron ship-building, has that simplicity which Hon. J. H. Pope, the Minister of Agriculture, and contains attaches to the lives of most eminent men, an oft told tale, various interesting schedules, among which are those relating but in his case one of almost unparalleled success. He com- to the religions and nationalities of the population. With menced business life as a boy in the foundry of the Allaire regard to the former the particulars are as follows: Roman Iron Works, in New York, as a moulder, at a time when the Catholics, 1,791,982; Presbyterians, 676,155; Adventists, best workmen received a precarious compensation of one 7,211; Baptists, 225,236; Free Will Baptists, 50,055; Mendollar per day, and it may be easily conjectured what a poor nonites, 21,234; Brethren, 8,831; Church of England, boy must have received. He there learned his trade, pass- 574,818; Congregationalists, 26,900; Disciples, 20,193; Epis. The mechanism has a double action, one belix of vanes, or ing through the daily experience of young men in that copal (Reformed), 2,596; Jews, 2,393; Lutherans, 46,350; screw propeller, driven in one direction or the opposite,

one has said. But it grew, though at first no one would have includes the following nationalities: Africans, 21,394; Cbibrated "Etna Iron Works." Commencing with small cast-1,298,929; German, 255,319; Icelanders, 1,009; Indians, ings, the contracts grew to large castings, then a machine 108,547; Irish, 957,403, Italians, 1,849; Jews, 667; Russians, shop, and boiler shop. During his early days it is not re-1,227; Scandinavians, 4,214; Scotch, 699,863; Spanish and his little foundry he continued to be one of the hard work 43,587. According to nativity, the population of the Dominers. It is pleasant to know that since then he has bought ionstands thus: Natives of England, 169,504; Ireland, 185,526; out some of the tools, machinery, and appliances of the Scotland, 115,062; Ontario, 1,467,988; Quebec, 1,227,809; Allaire works, in which he was employed as a boy. About Prince Edward Island, 101,047; Nova Scotia, 420,088; the year 1868 he came into occupation of what is known as New Brunswick, 288,265; Britash Columbia, 32,775; Mauithe "Morgan Iron Works," and about 1872 purchased most toba, 19,590; Territories, 58,430; other British possessions, of his property at Chester. It has often been predicted 10,368; France, 4,389; Germany, 25,328; Italy, 777; Russia,

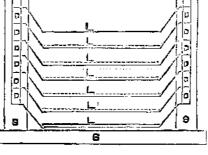
exact water line when launched. The water line of the ing millions. The secret lies within the man. Extraordinary sbip in every possible position is known, and consequently physical and mental energy, at work night and day from and 2,139 sub-districts. her stability. From the table of proportions the shape of the year to year, frugal in habits and democratic in feeling, "mould loft" floor with great accuracy, in the actual size presentative man of a thrifty and enterprising age. And of the ship to be built. And from this wooden patterns are with it all be is kindly and charitable. No one complains of brought from the furnace at a red heat, and after being been able to build up as he has builded, and to represent an drawn into this curved line, is bolted down until it cools industry such as this is, is qualified to judge of the needs, of frame from stem to stern. The iron plates are rolled in the of Mr. Roach that accompanies our sketches gives an idea of

Each plate has its number and place to which it is brought respect to the promotion of American industries, and our ers some notion of his ideas relating thereto; these, naturally, form the second branch of our subject, and are so extensive haps a more perfect idea of the extent of the works than any and interesting that we present them in a special article

### A SIMPLE FORM OF STORAGE OR SECONDARY BATTERY.

one-fortieth of an inch thick, pressed and hammered into shape in a wooden mould. These trays are arranged one over another in a wooden frame, S. The trays are kept at an equal distance from each other by pieces of wood, which as to her lines, but beyond this the constructor designs the slide up and down in the stand, the ends of the slides being ship, whether as to practical considerations or matters of shown at D. The dotted lines in the bottom of the tray represent layers of red lead, or oxide or reduced lead. On this is poured an acid solution of sulphate of copper, just the largest ship yet built by Mr. Roach, turned out of this deep enough to immerse the bottom of the tray above. The trays should be varnished all around the edges with Bruns-

> wick black, or some other acidof the bottom top of the top course, consist



of agreater numtogether.

The advantages of this form of battery are, the oxide of lead can always be kept at the most advantageous thickness. advantageous distance from each other. No diaphragm of the next stop. any kind is required, and therefore, however long in action, no reduced lead can weaken its action. The battery must always be kept level. Of course, it could not be used in tramcars, etc.

In making batteries on a large scale it would be well, perhaps, to cas the trays in an iron mould, and then it would be well to bave one corner of each cell cut off; and let this be done on alternate sides, to facilitate the inspection and supply of liquid. It would be well then to mix antimony with the lead to harden it. Possibly the trays may be made of carbon.—W. Symons, F. C.S., in English Mechanic.

# The Census of Canada.

The first volume of the Canadian Census Statistics of 1881 The story of the career of this man, who is the father of have just been submitted to the Dominion Parliament by the Subsequently, when he had acquired sufficient knowledge ants, 6,519; Quakers, 6,533; Unitarians, 2,126; Universalist, not prosper and often has failed. But be bas prospered, and of Canada number 2,188,854, and the females, 2,135,956; the Suez Canal.

married, 1,380,084; widowed, 160,330; unmarried, 2,784,396. Canada was divided for census purposes into 192 districts,

#### Train Brakes for Freight Cars.

The committee on train brakes for freight cars, appointed by the Master Car Builders' Association, reported at the late meeting that very satisfactory progress has been made in the last three years.

The Reed train brake has been considerably simplified in construction during the past year, and is doing good work on the Harlem Division, where it has been in operation for nearly two years.

The American Brake Company report having their train brake in successful operation on 500 cars on the St. Louis and San Francisco Railway, and that for cheapness, efficiency, and durability it is all they claim for it. Reports from the above railroad company give some 500 cars equipped with this brake running over a period of some fifteen months, and in that time several bad wrecks have been avoided by its use. The weight of the brake applied to one truck is 140 pounds per car, and the first cost \$11.75, while the annual cost of repair is very small.

The Tallman train brake, which has been working successfully on the Harlem Division for nearly two years, is also running on ten cars of the New York Live Stock Express Company between Cbicago and New York. At two trials of this brake in February, on the Central Railroad of It consists of a series of shallow thin lead trays, L, about New Jersey, excellent stops were made, some of them as fol-

> Speed 20 miles per hour, down grade, stopped in 360 feet in 18 seconds; speed 25 miles per hour, down grade, stopped in 450 feet in 22 seconds; speed 35 miles per hour, down grade, 23 feet to the mile, stopped in 1,080 feet. A trial of this brake on the Chicago, Rock Island, and Pacific Railroad proved quite satisfactory. Exact data not given.

> The Pennsylvania Railroad has some 75 stock cars equipped with the Westingbouse air brake, but are not yet satisfied in regard to its practicability for freight service.

There bave been two new brakes brought out since the last annual meeting of the association, which the committee tbink worthy of mention. The Fuller and Salvadge brake is in successful operation on a construction train on the Grand Trunk, Georgian Bay, and Lake Erie Railway. This brake is independent on each car, being operated by compression of draw-bar. The cost is about \$20 per car.

Also the Stowe brake, which is of peculiar construction, requiring neither air, steam, compression, nor electricity to operate it, for which the following is claimed: A short chain between the cars sets the brake automatically on all cars equipped with it, which are connected together. Where a train breaks in two, and should the brake be out of order on one or more cars, it does not affect the efficiency of the others, each car taking care of its own slack chain while transmitting the power unimpaired to its neighbor, and when the brake is applied, and the train brought to a stop, The plates or trays can also be arranged at the most the power is automatically stored up on each car ready for

# A Novel Balloon.

A NEW steerable balloon, the invention of Herr Baumgarten and Dr. Wälfert, was recently tried at Charlottenburg. It is of huge size, having a capacity of about 473 cubic yards, and is ellipsoid in form, the longer diameter being about 58 feet. It differs in principle from all other aerostats in that, although inflated with bydrogen, it has no ascensional force; its total weight is about 2 1-5 lb. above that of the air it displaces. The means of displacement in the borizontal or the vertical direction are a helical system of vanes actuated by machinery in the car. Hence, in making land, the balloon does not require to be partly emptied, and on reaching the ground it has nearly the same quantity of gas as when it rose,

Another novelty consists in the mode of connection of the car. This is rigid. Thus the dangerous bounds or jerks to which the ordinary balloon-car is liable in landing are to some extent avoided. The car being usually suspended by ropes, the system is suddenly relieved of its weight when it touches the ground, so that the balloon shoots up again, giving a series of violent shocks. With a rigid connection the total weight cannot be thus temporarily diminished. Methodists, of all classes, 742,981; Pagans, 4,478; Protest- produces ascent or descent, while a couple of screws give horizontal propulsion; in a pretty calm atmosphere the boriand saved up sufficient capital, say, fifty dollars, be estab- 4,517; no religion, 2,634; other denominations, 14,269; not zontal direction may be modified by working one of the lished a foundry of his own, "ridiculously small," as some given, 86,769. Total, 4,324,810. The population of Canada couple alone. The first experiments, it appears, were quite successful. The weather was exceptionally calm. In a believed it to be a foundry, until it became to be the cele nese, 4,383; Dutch, 30,412; English, 881,301; French, second trial a slight accident ruptured the envelope of the balloon, and the car mechanism was also injured. The experiments are soon to be resumed. The motor, it may be mentioned, has a force of 4 horse power and weighs 80 lb. corded that be was one of the strikers, but after he started Portuguese, 1,172; Swiss, 4,588; Welsb, 9,947; all others, | The cost of charging each time the balloon is filled anew is

# Fast Speed from China to London.

The new steamship Stirling Castle, from Hankow, China, lately reached London, after a run of 29 days 22 hours. the fastest on record. The distance from Hankow to London is 11,250 miles, so that the Stirling Castle made an average of by companies, in his line of business, that he must fail, be 6,376; Spain, 215; Sweden and Norway, 2,076; United more than 375 miles a day, making no allowance for detencause one man could not succeed where a corporation could States, 77,753; other countries, 14,169. The male population tion at coaling ports and time occupied in passing through

### Origin and Evolution of French Heels,

It has generally been assumed the high heels seen on the boots worn by Parisian ladies are the invention of some considered to have had a fair trial. A specimen clock was result of both methods. enemy of the human race who delights in inflicting torture upon the fair sex in the name of fashion. It would seem, ber, all due precautions being taken to avoid tampering with however, from recent researches that what is now worn it by affixing the government seal. After six months' trial The discovery of a mastodon skeleton near Freehold, on tiptoe will fall nearer the toe in proportion as the heel from the chimney. is raised, until, in the extreme case of dancers who actually stand on their toes, the two coincide. The mathematician expresses this by saying that the base of a right angled trianwhich is the hypothenuse, remaining constant, the distance carbohydrates, or a total of 71½ per cent of sugar productional body, and its head inclined toward its chest. from the toe to the heel of the boot, where it touches the ing constituents; but dry rice contains 89 per cent of starch ground, must, by the inflexible laws of mechanics and and 1 per cent of intermediate bodies, making a total of have been recently raised above the surface of the ocean. It is true that this makes the foot look shorter and thus may ignore the other constituents of the two materials, for favors the vanity of the wearer, but this is an incidental and they have either to be removed prior to mashing or they unavoidable consequence, not a cause.

in mind the fact that such heels are only intended as a slight brewing purposes, for these constituents having to be re- fact of having been made in a sailing vessel, which has been is, instead of supposing that they are to bear the weight of price of maize at 6s. 6d. per cental, and rice at 7s. 6d. per freezing point. The vessel has on board 5,000 sheep, and the body as flat heels are.

never be attempted on French heels. The force with which pounds; we then find by simple calculation that every pound are generally iron clad or shod with brass, and that on old penny, or about 11/4d., while a pound of available extract pany (limited). boots they are invariably worn off or "run over." This should from rice costs one penny, that is, about 20 per cent less. never be. A lady that would walk gracefully and properly The cost of working the two materials is as nearly as possi-lead to a great extension of the trade in tropical fruits between on French heels should be able to walk as well on glass heels ble the same, for the expense separating the fatty and albu- New York and the West Indies. By the use of a refrigeraas on iron or wooden ones. Worn in this way real French minous constituents of maize is just about covered by the ting machine the immense losses now experienced by our beels (not the base imitations sold as such in this country) value of these constituents for other purposes. Our calcu- fruit ships may be wholly overcome, and the finest fruits may instead of injuring it as high heels now have the reputation of the two materials, and the tendency of the market is brought from the south without loss. For engravings of the of doing, and the serious charge that surgeons make of their toward a still further increase in the price of maize. As to above refrigerating machinery see Scientific American foot would vanish at once.

slippers or lace boots without heels, and fastening to each, at the point where the heel should be, a small rubber ball with out any need of brass heel plates.

to use with French heels as square toed ones, for in all tiptoe jacent foliage. These mimic "wire bridges" were of farm very strongly, and his Excellency took up the matter walking the toes must have plenty of room. Short steps are various lengths, owing to the direction of the wind and the warmly. Through his active interest and influence, Mr. also preferable to long strides.

of high and low heels, but merely to state the underlying 7 feet to 10 feet occurred pretty often; one line had been declared his willingness to give them a trial. His farm principles of mathematics and anatomy, and to show how measured for a length of 26 feet, and in several instances consists of about 5,000 acres, near the Kaiping coal mines, they may be made conducive to health instead of as now the they had been observed stretching across country roads of now being opened by foreign engineers under his superinaloof from all matters of fashion, treating her with contempt. of these carried by the wind directly from the spider's spin- He has obtained some United States cattle, which will be Hygienic reformers content themselves with abusing nerets; had watched the entanglement; had seen the spider used with the native stock for the purpose of testing the fashion, which goes on totally indifferent to all they say, then draw the threads taut, and finally cross upon them, practicability of the suggestions which have been made. No one has ever attempted to study the science of fashion, These air-laid bridge lines were often used for the frames of Mr. Tang King Sing announces that in the promotion of and yet Herbert Spencer says that wherever there are facts, the orb, though undoubtedly the foundations for these were this enterprise his object is to afford his countrymen an opwhich can be collated and compared, we have the basis for also very frequently made as described by the Rev. O. Pick- portunity to become possessed of at least a portion of the

#### A Perpetual Motion Clock.

fixed at the Gare du Nord Terminus, Brussels, last Septem-

### Rice vs. Maize in Brewing.

According to published analyses, perfectly dry maize conmathematics, decrease as the height of the heel increases. 90 per cent. For the purpose of our present argument we are insoluble, or have to be rendered insoluble during the ping Company, lately arrived in the East India Docks, Lon-The French heel has been blamed for much that it does mashing process; incidentally we may mention that the ex-don, with the first consignment of frozen meat which has not deserve because its object is not understood and hence it istence of large percentages of fatty and albuminoid sub- been sent to England from New Zealand. This shipment is improperly used. The wearer of a Fench heel should bear stances in maize constitute an objection to this material for differs from all other importations of frozen meat, from the assistance in walking on tiptoe and to make the carriage moved there is a danger of some portion remaining, and thus 98 days on the passage, during which time the holds of the more steady and uniform than walking on tiptoe ordinarily deteriorating the wort. Now, taking the present market ship containing the meat have been kept at about 20° below cwt., excluding the moisture, maize now costs 7s. 4d. per the apparatus for freezing was fitted up by the Bell-Coleman The square "heel and toe" walk of the pedestrian should 100 pounds, and rice 8s. 5d. per cwt., or 7s. 6d. per 100 Mechanical Refrigerating Company. would develop the calf and improve the shape of the leg lations are, of course, based upon the present relative prices be delivered here in prime condition. Vegetables may also be throwing the whole weight of the body on the arch of the the quality of the extract, we consider there is nothing to SUPPLEMENT, No. 314. choose between rice and maize, provided the latter is sub-Ladies (and gentlemen too) if they wish to walk gracefully mitted to the necessary preliminary treatment for the sepaon French heels may practice indoors by taking a pair of ration of the objectionable constituents.—Brewer's Guardian.

# Spiders' Threads.

a whistle in it that makes a noise when it is squeezed. The The Rev. H. C. McCook has been studying the mode of In one of his previous reports he had pointed out that the size of the ball will correspond to the height of heel to be constructing webs prevailing among the orb-weaving spiders, Mongolian herds could be greatly increased in value by the worn. When the wearer gets so she, or he, can walk with- and he seems to have confirmed his previous opinions that establishment of a farm at some convenient locality, at which out pressing on the balls hard enough to make them squeal, the silk line framework or foundation of their webs is laid fine stock, horses, cattle, and sheep could be bred. This they will be able to walk lightly and gracefully on French in the first instance by the help of a current of air carrying report came under the cognizance of his Excellency Li, with heels without any danger to the arch of the foot, and with- the thread. In a great number of cases Mr. McCook ob- the result that an interview between the Consul-General, served the spiders passing from point to point by means of a breeder from New York, and Li was brought about. The It is evident that pointed toed boots are not so well adapted ines emitted from their spinnerets and entangled upon ad | New York breeder urged the advantages of a good stock relative positions of the spider and the fixed objects around. Tang King Sing, an active and progressive mandarin, was It is not the part of science to discuss the relative beauty, it. Lines of 2 feet to 4 feet were frequent; lines of from convinced of the superiority of Western ideas, and at once reverse. Hitherto scientific observers have held themselves from 30 feet to 40 feet width. He had also observed some tendence, situated about 80 miles to the north of Tientsin. ard (Cambridge), by the spider fixing its line to one spot, science already attained by Western nations in the improve-If there is a science of history there must be a science of then traversing the distance to some other spot, and then ment of their breeds of cattle. The result of this movement fashion, absurd as this may sound. Facts are abundant, and hauling in the slack. The observations of Mr. McCook show will be watched with no little interest. we have every reason to believe that the principles of evolu- nothing like a deliberate purpose in connecting the point of tion and development will be found to hold good there as occupancy with any special opposite point. The spiders.

bridge lines, while in more contracted spaces the frame lines Mr. Dardenne's self-winding perpetual clock may now be are generally carried around, and often a foundation is the

### A New Jersey Mastodon.

merely as an object of beauty was originally adopted for it was found in perfect time with the Observatory clock, N. J., adds to the evidence that some of those huge creatures practical purpose and were then articles of use instead of and had not varied in the slightest degree during that time. must have survived until a period geologically quite recent. beauty. A medical writer of the olden times, before French | The clock is wound by a small anemometer or windmill, The bones were found by a farmer while digging a trench ladies had invented, or properly adopted, the heel, says: which is placed in a ventilation pipe, chimney, or any other for draining a swampy meadow, and examined by Dr. Sam-"In Paris, where the recess have no side pavements, the place where a tolerably constant current of air can be relied uel Lockwood. The tusks were nearly eight feet long, but ladies are obliged to walk almost constantly on tiptoe." on. This windmill is, by a reversed train of multiplying too much decayed to be preserved. The bones of the head, Although the author used this statement to illustrate a dif- wheels, continually drawing over a wheel an endless chain, which were lying within two feet of the surface, were so ferent subject, it goes to prove that the habit of walking on in one loop of which the clock weight is supported. As the soft as to be easily cut with a spade. They were nearly the tiptoe was forced upon the ladies by wet streets (Paris loop hangs between the clock and the winding machine the color of the black vegetable mould of the meadow, and streets are still kept wet in winter and summer alike) and weight is continually drawing through the clock the slack therefore almost indistinguishable. But a careful inspection thin soled shoes. It is easy to see that this gave them a chain drawn up by the wind motor, and thus a constant showed that the front part of the head was greatly similar to peculiar gait that was at once light and airy, as well as motion is maintained. A ratchet wheel prevents the that of the elephant of the present day, except that the foregraceful. It requires some exertion to maintain this tiptoe motor from turning the wrong way, and, by a simple ar- head was abnormally high. By a &ose investigation of the walk for long distances, although this exertion is rewarded, rangement, whenever the weight is wound right up to the skull, numerous air cells, some of them an inch in diameter, as this same writer tells us, by an enlargement of the calf of top, the motion is checked by a friction brake automatically were found. The bone of the skull was of an immense the leg to such an extent that it has given them a conforma- applied to the anemometer by the raised weight lifting thickness, but completely honeycombed with these air cells. tion of the leg and foot to match which the Parisian belles a lever. When the weight is thus raised to the top, the These cells had become filled with the fibrous roots of plants proudly challenge the world. "Nevertheless some lazy clock has a sufficient store of energy to go for twenty-four which extended through the entire skull. After digging belle (?) probably thought to accomplish the feat of walking hours, so that it is not by any means dependent on a regular through the skull and coming to the lower part of the head, on tiptoe with less exertion by a support placed under the current of air. As this clock receives such a liberal supply three or four more teeth, similar in shape, size, and weight heel of the foot, and this gave rise to the French heel. That of winding, it does not require so long a train of wheels as to that already described, were found. The teeth, unlike it must be placed farther under the foot than a flat heel will an ordinary clock. The works of the clock are only con- the tusks and bones, were in a remarkably good state of prebe evident on a momentary consideration. A plumb line let nected with the winding arrangement by means of the loop servation. The exploration was continued until the entire fall from the heel of the foot (the os calcis) when standing of chain, so that no injurious matters can reach the former body was laid bare. Beneath the bones was found a bed of sand, upon which the animal had evidently lain down to die. The bones of the body, though greatly decomposed, were plainly distinguishable, and the position of the animal was ascertained. It was lying with its head to the north-east, gle is less than its hypothenuse. The length of the foot, tains 671/2 per cent of starch and 4 per cent of intermediate and its legs stretched out at length at right angles to its

The region about Freehold is believed by geologists to

### Fresh Meat from New Zealand.

The sailing vessel Dunedin, belonging to the Albion Ship-

The meat was in fine condition, and the shipment has been the wearers strike their heels is shown by the fact that they of available saccharine extract from maize costs 1 23 of a managed by the New Zealand and Australian Land Com-

The success of this refrigerating sailing vessel ought to

# Chinese Stock Farming.

An interesting account of the establishment of a stock farm by the viceroy of the province of Chihle, in China, has been given by the American Consul-General at Shanghai.

# A Moving Bog.

elsewhere. The above sketch of the origin of French heels seem to act in the matter very much at haphazard, but with An Ennis telegram reports that some hundreds of acres will serve to show that, when properly interpreted, some of a special instinct of the fact that such behavior would secure of bog on the estate of Mr. Ralph Wistropp, in East Clare, the most absurd fashions teach a useful lesson, and if proper- available attachments. Many of the bridge lines were evil Ireland, on the afternoon of May 26, commenced moving to ly directed they may lead to benefit instead of injury. It dently tentative, and were chiefly at the mercy of the breeze, the southeastward, carrying before it several patches of reis safe to assume that 25 per cent of our people are bound by although some observations seemed to indicate a limited claimed land under cultivation for potatoes. Part of the the chains of fashion. Is not a subject to intimately associ- control of the thread by manipulation. As a generalization main road to Limerick was also destroyed. Emergency men ated with the welfare of humanity worthy the study of from many observations Mr. McCook concludes that webs have been telegraphed for to repair the damage. According built in large open spaces are perhaps always laid out by to the latest accounts the bog was still moving.