yard about the stacks. The hedge sparrow, in reasonable we are mistaken in this statement, if one in a hundred of ventor and mechanician of superior abilities, a musician of numbers, is a valuable insect-destroying aid to the farmer, those who have paid money to these pretended patent sellers unusual excellence, an artist of peculiar skill, and an englers being seen. When they settle again, it is with one must be furnished, etc. To do all this in a proper and effec-

ever, rarely containing more than four notes. The English farmer resorts to numerous strategic expedients to rid himself of his superfluous stock of sparrows, one of the most successful of which is to hold a bird net close to a stack of hay or wheat in the winter nights, and placing mander, will soon sail from New London, Conn., for a voyage a lantern near the middle of the net, they beat the stack to Cumberland Island or some place near Cumberland Island, with sticks, whereupon the sparrows fiy to the light and are when the ship's company will form what is known to the caught, terminating their tangible existence in the sparrow scientific world as the Howgate Polar Colony. At the last pie which next day graces the farmer's table.

are nearly all house sparrows, and while a sparrow with a explorations; and though the House Committee upon Naval white feather or feathers is quite a curiosity in England or Affairs reported favorably upon the bill, it was impossible to France, they are quite common in and about New York secure favorable action, and the bill was not passed. Concity. They form at least five per cent of the whole, tributions have been obtained from private sources, and the while about ten per cent of the female birds have their expedition is being forwarded as rapidly as possible. Capplumage interspersed with partly white feathers. In tain Tyson, it will be remembered, was assistant navigator the City Hall Park may be seen at any time some spar- of the ill-fated Polaris, and escaped on the ice fice. He is rows with plumage lighter than others. At Bloomingdale peculiarly fitted for the responsibility confided to him. He some are seen unusually light. The European sparrow has been a seafaring man for over twenty years, and a large moves with a clean and distinct hop, rising from the ground, portion of his life has been passed in the Arctic regions. and making a perceptible pause between each hop, but the He is known as a skillful navigator, good executive officer, sparrows at Bloomingdale make a succession of quick hops firm in purpose, cool in temper, and has a well balanced with very little rise, amounting to a short run, and stopping mind. veryshort, resembling somewhat the movement of the American robin. In fact the result of ten years of observation is to meteorology, geology, natural history, and cognate scithat the habits of the American sparrow are undergoing a ences of the polar regions by a system of observations, steady change, and he appears to be entertaining somewhat which will be favored by a permanent location, provided of disdain for the insectivorousness to which he owes his im- with necessary facilities. Magnetism, astronomy, atmoportation, forgetful that in no other way can he pay his spheric electricity, mineralogy, the question of ocean streams passage money.

SELLING PATENTS BY AUCTION.

A correspondent writes as follows:

To the Editor of the Scientific American :

buyers? Or will your paper contain them? L. B. C.

novel attempt of an auctioneer in this city to establish a on his mind. regular series of auction sales for patents, similar to the sales of coals and other realized commodities. As might have been expected the attempt has proved a failure, so far as concerns the bona fide sale of patents; but has been a suc- will be glad to know that one of our valued correspondents, cess for the pocket of the auctioneer. The plan is as follows: Mr. Samuel Loyd, of Elizabeth, N.J., has undertaken to The auctioneer by extensive advertising requests all who have supply them with a weekly record of chess information,

and so indeed, in a lesser degree, is the house sparrow; but have ever through such agency effected a satisfactory sale, graver of rare talents. The portrait of Dr. Moore is one of the swarms of hedge sparrows to be seen in the southern or received back their money, we should be glad to learn the his productions- "When do you find time, Mr. Loyd, to counties of England are sometimes as relentless and exacting names and particulars. The truth is that, in order to sell a execute these art works?" we asked, "I quit work at six as the worst case of tax gatherer. Except in nest-building patent advantageously, something more must generally be o'clock," he said, "and after supper my wife reads, I listen, season, the hedge sparrow can be distinguished in the air by done than to hold up a mere certificate on paper. The public and at the same time make my drawings." his flying in compact and well defined flocks, scorning the must be very extensively informed about the merits of the careless, disorderly, and irregular flight of the house sparrow. new invention; the intending purchaser must have some sort Manufacture of Lead Pipe, Sheet Lead, and Shot. "When a flock takes a larm, and two or three birds rise from the of ocular and corroborative evidence that he can make ground, the rest rise like a broad and somewhat circular money if he buys a right; he must see some actual examples present volume, have attracted much attention. Those who sheet; and if they divide at all, it is done completely; one of the device; understand how it is made, and at what cost; still desire to obtain copies may supply themselves at this compact division going one way and one the other, no strag- truthful information concerning the market for the goods office or at any of the news stores. accord, whether it be in the field or upon the hedge rows. tual manner requires for each patent the undivided time and At times a flock will settle upon a tall bush as thick as bees, attention of one or more active persons for a considerable Colwell, Treasurer, for attentions to our artists who made and chirp away with all their might and main, and at such period; and hence, it appears to us to be almost an impossi- the sketches illustrating the making of shot, and for the times so intently are they engaged in their quarrel, confab, bility for any one individual or concern to make successful particulars given, as published in our issue of July 28. The or whatever it may be, that one may get almost within arm's progress in the sale of a multitude of patents. The selling Colwell Lead Company is one of the largest and most enlength of them, and watch them hop from twig to twig of a single patent frequently employs the time of many per- terprising establishments of its kind in the world. amid a very babel of chirps. When the nearest birds find sons. If there is any one method or agency more effective sufficient time from their noisy conclave to look about them than another, whereby a patentee, without going to much and discover an invader's presence, they rise with a short expense, can find customers, it is by the dissemination of a sharp chirp and fly off without another word, the rest of the handsome picture of the invention. Good engravings reflock either dispersing or hieing away to the fields in an presenting the invention in its various forms and applicairregular and disorderly manner. A dozen examinations of tions, accompanied by lucid descriptions, are almost equal Excellence," making in all six grades of medals, four grades the bushes, in which these unruly conventions had been held, to models or working machines, in conveying information of diplomas, and the usual money awards for "perishable failed, with a single exception, to furnish any intelligible to the public. Descriptive circulars are good in their way; products," as flowers, fruits, etc. "The Special Medal" cause, and in that one case there was found a poor escaped but no matter how eloquent and strong their array of ad- will be offered for certain specified exhibits each year, and and half frightened to death canary bird. The hedge spar. jectives in praise of the invention, they have little power, each year changed. For the Forty-sixth Exhibition, 1877, row is destitute of the impudence of the house sparrow, and and make little impression as compared with graphic de. which opens September 12th, the following articles only this is no doubt largely due to the enterprise of that Euro- lineations; which, if well executed, are pretty sure to com- can compete for this award: Pumping machinery, passenger pean institution, the crow boy, whose duty it is to perambu- mand the attention and convince the judgment of the ob- elevators, sewing machines, fire escapes, an approved autolate the grain fields to scare away the birds, especially the server. The distribution of these engravings can be readily matic fire detector, an approved method of preventing alteracrows and sparrows, whose earthly happiness appears to be arranged for by the patentee himself; he has the satisfaction tions of checks, bonds, drafts, and valuable documents, by measured by his capability to make unearthly yells produced of knowing that every copy sent out is a good seed sown, a the use of specially prepared papers or otherwise. at the back of the throat and audible a quarter of a mile dis-istep made in the right direction, and all resulting business tant; occasionally a "crow boy" will vary his occupation by comes to him direct; but in nine cases out of ten all advance inventing an alarm note of his own, the whole sound, how fees paid to the professional patent seller is so much money thrown away.

THE HOWGATE POLAR COLONY.

The schooner Florence, Captain George E. Tyson Comsession of the forty-fourth Congress an effort was made to Returning, however, to the sparrows in the country. They procure an appropriation of \$50,000 for purposes of polar

> The object of the expedition is to collect data in reference and currents, the phenomena attending the diurnal rise and fall of the tides, velocity and character of the winds, observations upon the vibrations of the pendulum, etc., will en- and water most scarce; and the writer proposes that it gage the attention of the colony when fully established.

Captain Howgate, the projector of the expedition, is an I notice a sale of patent rights took place in your city on officer of the regular army and is connected with the Signal July 16. Can you give me the names and address of the Bureau. He was selected as one of the committee of investigation on the loss of the Polaris, and during this investi-

CHESS.

The lovers of this interesting and really scientific diversion

Our recent series of illustrated articles, in Nos. 3 and 4,

We are indebted to the Colwell Lead Company, No. 63 Centre street, New York city, John Hooper, President, Lewis

0 (**0**) (American Institute Exhibition.

The managers have added three medals to the list of awards for the coming exhibition. They are "The Special Medal," "The Medal of Superiority," and "The Medal of

-----**Dangers from Doctors.**

Dr. Seaton, medical officer of health, remarks in a late lecture: There are many occasions where the clothes of the medical attendant require disinfection, as, for instance, after visiting a group of small pox or scarlet fever patients. Where the practitioner has been unfortunate enough to have a patient with puerperal fever under his care, the linen requires to be boiled, and the other things baked, before being worn again at a labor. But it is to the hands that he must nav special attention, and it is here that the disinfecting properties of chlorine are particularly useful. The hand should be well soaked, three or four times daily in the chlorinated soda (P. B.). If this is done for a week, baths used at the same time frequently, and the clothes disinfected, practice may be resumed without danger. Length of absence will not compensate for a neglect of these precautions, as the practitioner may communicate the disease after many months.

The Rain Tree.

The Consul of the United States of Columbia in the department of Lereto, Peru, has written from Yurimagus to President Prado, informing him that in the woods adjacent to the city of Moyobamba exists a tree called by the natives Tamai-caspi (rain tree) which possesses some remarkable qualities It is a tree of about fifty feet high when at maturity, and of about three feet in diameter at the base, and has the property of absorbing an immense quantity of humidityfrom the atmosphere, which it concentrates and subsequently pours forth from its leaves and branches in a shower, and in such abundance that in many cases the ground in its neighborhood is converted into a perfect bog. 'It possesses this curious property in its greatest degree in the summer, precisely when the rivers are at their lowest, should be planted in the more arid regions of Peru for the benefit of agriculturists.-Panama Star and Herald.

A Two Foot Cheap Railway. The two feet gauge railroad between Billerica and Bedford ANSWER.—Our correspondent doubtless alludes to the gation the present scheme of a polar colony impressed itself is making good progress, and will be soon finished. The passenger cars, now building at Laconia, N. H., will be a decided novelty, as they will have a row of single seats on each side. The road is eight and one half miles long, and will cost about \$50,000, or less than \$6,000 per mile, being only one eighth the cost of the ordinary railways.

The Deepest Well in the World.

The Warren Farm Well, one of the deepest, if not the

patents to sell to send the same to him, together with the which will be given regularly, until further notice, in the sum, in advance, of five, ten, or twenty dollars, as the case SCIENTIFIC AMERICAN SUPPLEMENT. The first contribumay be; for which amount the auctioneer promises on a tion will be found in the current number of the SUPPLEgiven day, to offer the patent at public auction, and to re- MENT; for particulars, see the table of contents printed in feet, the shaft being 6 feet in diameter down to 400 feet, turn the proceeds of the sale to owner less certain additional another column.

commissions. Numbers of patent owners have nibbled at It is a curious fact, that the most distinguished inventors, this pretty bait, have sent in their patents and money and mechanics, scientists, lawyers, clergymen, musicians, and enjoyed what they paid for-the satisfaction of having their statesmen, find recreation in the practice of this superior parchments cried out for sale in the rear end of an auction amusement. There appears to be something about it that shop; but in the majority of cases there were no genuine both delights the mind and sharpens the understanding. The bidders. In fact we have not heard of a single example of a ablest men are found among its devotees, and confess to its bona fide sale. If, however, there have been any real sales, beneficial influences.

we should be glad to be informed of the exact particulars, Mr. Loyd is well known all over the world as a chess Commissioners several years ago, and this is believed to be in order that we may give our readers the benefit of the facts. | player, and has probably met with as many successes and the first catch in any of the tributaries. Scattered about the country, there are quite a number of | carried off as many prizes as any other individual. He pro-

individuals who purport to make themselves useful in sell- bably has no superior in chess; a fact that will add interest MR. AARON VEEDER, the photographer, of Albany, N. ing patents. But like the patent auctioneer, they thrive to the student of the problems that will from time to time Y., has made a series of interior photo views of Howe's upon the advance money received from the patentees; the be given in our SUPPLEMENT. We may also add that, in Cave, by means of the calcium light. The stalactite and latter seldom or never get any money back from them. If addition to the above accomplishment, Mr. Loyd is an in- other formations are quite remarkable.

deepest, dug wells in the world, was commenced on the South Downs above Brighton in 1858, and after four years persistent digging the water was reached at a depth of 1,285 and 4 feet for the remainder. The operation cost between £6,000 and £7,000, and was watched with the greatest interest by geologists.

Shad in the Iowa River.

Fly fishers on the Iowa river, at Iowa City, have recently taken several shad, weighing about one pound each. Shad were placed in the Mississippi by the United States Fish