"Seeds that have not learned to fly with their own or other
that the nesting would be the most extensive ever known in and it is said that in a fortnight's time three thousand hunt. ers-professionals, amateurs, greenhorns-had invaded the country from all directions, surrounding and penetrating the nesting grounds.
It was noticed, however, by old hunters that the birds did not settle down to domestic life as quickly as usual. The roosting birds-that is, those who had not yet mated-outnumbered the nesting birds a hundred to one. Some of the ing woods and commenced popping away at the nests themselves, a snow storm followed, high winds prevailed, and many of the roosting birds, disgusted, postponed their anticipated housekeeping, and scattered. The nesting consequently falls far short in magnitude of what was at first expected, though still large in area and containing millions of birds. It scattered along the banks of the Platte River, the townships of Almira, Zeeland, and Homestead. The distance from one end to the other is over ten iniles, and the width varies from a few rods to three or four miles. There are, however, numerous long distances between the two extremes where no nests are to be found, and the birds have occasionally changed their ground, so that many of the hunters themselves are very uncertain as to the exact whereabouts of the birds at the present time. In the nests first made the young are abont ready to fly, and have been abandoned by the old birds, and in some places, owing to the winds and the constant shooting, the nests have been deserted before any birds were hatched.
One nesting is about the same as another, and the first nest you come to is like the million others in the county. When these migratory birds have mated, decided where to settle, and have staked off their claim, they proceed at once to construct about the slightest nest that will hold an egg and a bird. "Three sticks and a feather" constitute about the material, according to a recent visitor here. The feather is often wanting, but a few more sticks are generally added. The nest is placed in the crotch of a tree, on two forked branches, or anywhere else in the tree where suitable support can be found. Cedar trees along the river bottoms seem to be preferred, but when the nestings are large, beech and other trees are occupied. From half a dozen to fifty or sixty nests are built in a tree, and only one egg is laid in each nest.

## NATURAL HISTORY NOTES.

Interdependence of Plants and Animals.-Few, perhaps, know that a certain little gall fly (Cynips) of Asia Minor decides on the existence of tens of thousands of human beings. As our clippers and steamers carry the produce of the land from continent to continent, so these tiny sailors of the air carry the fertilizing pollen from the male to the female flowers of the fig tree. Without pollen there come no figs, and consequently on the activity and number of the gnats depends the productiveness of these trees. The fruit of the fig is not, as in most other cases, a pericarp enveloping the seed, but a common calyx or receptacle which incloses the flowers. In the center of this receptacle the cavity is lined with a multitude of flowers, the male and female blossoms being on distinct plants. The medium of communication to these flowers is only a small aperture at the summit of the receptacle. Hence the access of pollen to the female blossoms is impossible by the ordinary means of transmission, and this is accomplished by the little gnat, which is continually fluttering about from fig to fig for the purpose of finding a suitable place in the cavity to deposit its eggs. These gnats, therefore, regulate in fact the extensive and profitable fig trade of Smyrna. A little ugly beetle of Kamschatka has, in a like manner, more than once saved the entire population of the most barren part of Greenland from apparently unavoidable starvation. It is a great thief in its way, and a most fastidious gourmand moreover. Nothing will satisfy it on a long winter evening-and we must bear in mind that these evenings sometimes last five months without interruption-but a constant supply of lily bulbs. The lilies are well content with this arrangement, for being eaten comes as natural to them as to a Fiji islander; and they, are, as a compensation, saved from being crowded to death in a narrow space, while those that escape the beetle shoot up vigorously the next summer in, rich pastures. Still better content are the Greenlanders; for, when their last mouthful of meat and their last drop of train oil are gone, they dig up and rob the provident little beetle of its carefully hoarded treasures, and, by its aid, manage to live until another season.
Self Defence among Plants.-Dr. Beccari describes an epiphytal plant, a myrmecodia, growing on trees in Borneo. Its seeds germinate, like those of the mistletoe, on the branches of the tree; and the seedling stem, covered by the cotyledons, grows to about an inch in length, remaining in that condition until a certain species of ant bites a hole in the stem, which then produces a morbid gall-like growth, which ultimately becomes a tuber-like body, constituting the home of the ants. Dr. Beccari asserts that the presence of these ants is an essential to the plant's existence, for unless the young plants are thus attacked by these insects they soon perish. The ants then protect their plant home by rushing fiercely out on the intruders. The white sessile flowers in this species are produced on the tuber-shaped body of the plant.
Dispersion of Seeds.-Says Professor Prentl, in a recent lecture on the means taken by plants to disperse their seeds:
people's wings, are taught, it seems, to swim. Trees and bushes which bear nuts love low grounds and river banks. Why? Because their fruit is shaped like a small boat, and the rivulets playing over silvery sands, as well as the broad waves of the Pacific, carry their seed alike safely and swiftly to new homes. Rivers float down the fruits of mountain regions, into deep valleys and to far off coasts, and the Gulf Stream of our own Atlantic carries annually the rich products of the torrid zone of America to the distant shores of Iceland and Norway. Seeds of plants growing in Jamaica and Cuba have been gathered in the quiet coves of the Hebries. The fruit of the red bay has the form of a piroque; at first it sinks to the bottom, but nature has given it a small hole in the upper part; a little air bubble forms there, and causes it to rise again. The gigantic sea cocoa itself, weighing not
rarely more than five pounds, but air-tight in its close shell, and buoyant by reason of its light, fibrous coat, is shell, drifted from island to island, and rides safely on the surges of the ocean from the Seychelles to the distant coast of Malabar. There it lodges and germinates in the light moist sand, so that the Indians of old fancied that these fruits grew under water, and called them " sea cocoas." A still more striking provision of nature is this, that there are some
seeds of this kind so exquisitely adjusted to their future destination, as to sink in salt water, whilethey swim with safety in fresh water."

The Pedigree of the Dog.
While considering the problem of the origin of the dog, a recent lecture at the Royal Institute, in London, Prof. Huxley expressed the opinion that its solution was easy if a beginning was made upon a solid basis of fact. Such a basis of fact was supplied by what was known of the origin of dogs in North America. The Indians of the northwestern parts of America were all in possession of half-tame curlike dogs, living in the same way as the dogs in Egypt-in a semi-independent condition. In the same country there existed a wild animal-the Canis latrans, or prairie wolf. It was impossible to point out any distinction between these prairie wolves and the domesticated dog of the Indians. It was somewhat difficult to understand how these wild and fierce animals could be tamed; and yet, when one knew their habits, it was easy enough. The smaller wolves and jackals, although predacious and fierce, were endowed with singular curiosity; that curiosity directed them toward man and his doings. There was not one of these animals which,
if caught young-whether jackal or small wolf-could not be tamed and made as attached and devoted to man as any ordinary dog. It was not difficult to understand, therefore, how these animals became acquainted with man, how they became trained, and how from them sprang a race of domesticated animals which, curiously enough, were far more attached to their masters and the animals with which they were brought up than to members of their own family. If they could depend upon the fact that this one domestic dog:
originated in the taming of an indigenous wild animal, then the general problem of the origin of domestic dogs would take this form-could they find in all parts of the world in which domestic dogs were known wild stock so similar to the existing race of dogs that there was nothing unnatural in supposing that they had the same origin as the Indian logs? They might trace dog-like animals further and urther west, until, in Northern Africa, they had a whole series of kinds of dog-like animals, usually known as jackals. He believed that these wild stocks were the source from which, in each case, the savages who originally began to
tame dogs had derived the stock. This view was confirmed by, archæological researches. They had preserved to them, on the monuments of ancient Egypt, a great variety of forms of dogs, and it was significant that the further back they went the fewer were the varieties, until, at the time of the third and fourth dynasties-that is about 6,000 years ago-there were only two well marked forms of dogs. One of them was a comparatively small cur-like dog, similar to that which was to be seen in the streets of Cairo at the present day, and the other was like a greyhound. The cur was, no doubt, a tame species of the wild jackal, which was the greyhound, there was in Abyssinia a very long-headed log, which was very much of the same form as the greyhound, and which, it could hardly be doubted, was the source from which it sprang. Assuming that there was no doubt that the origin of dogs could be traced to these were simply the recult of the select breeding which had given rise to the same modification in dogs as it had done in the case of pigeons.

## Apple Borer

A subscriber asks how he can get rid of the apple borer. According to a writer on horticultural and agricultural subjects, when borers have once gained possession of a tree the only way to get rid of them is to hunt for them carefully with a knife or wire and destroy them. The eggs of the parent beetle are deposited during nights in June, and are placed in the bark of the tree at the surface of the ground,
or whatever may surround the tree. These eggs hatch in our latitude during September; and it is soon after this that the young grub may be easily removed without the use of anything more than the point of a penknife. A few minutes spent in this way about the first of October each fall will keep the tree from this pest.

## recent decisions relating to patents, copy-

 RIGHTs, етс.Supreme Court of the Unit

## baker vs. selden.

(Decided October Term, 1879.)

1. The copyright of a book, if not pirated from other works, will be valid without regard to the novelty of the ubject matter.
2. The description of an art in a book entitled to the benefit of copyright lays no foundation for an exclusive claim to he art itself. The description alone can be protected by copyright. The art can only be secured, if it can be secured t all, by letters patent.
3. A work on the subject of book-keeping, explanatory either of old systems or of an entirely new system, con sidered as a book conveying information on the subject and containing detailed explanations of the art, is the subject of copyright; but the use of the peculiar systems of book-keeping described cannot he protected thereby.
4. Blank account books with ruled lines and headings are not the subject of copyright, nor can the copyright of a work on book-keeping with portions illustrated by such ruled lines and headings secure the exclusive right to make, sell, and use account books prepared upon the plan set forth in such book.
5. Although the proofs show that the defendant makes account books arranged on substantially the same system as that explained in the copyrighted book of the plaintiff, it does not appear that he has violated the copyright of the same regarded merely as an explanatory work, and, as the plaintiff is not entitled to an exclusive right in the system, the charge of infringement is not sustained.
Appeal from the Circuit Court of the United States for the Southern District of Ohio.
Mr. Justice Bradley delivered the opinion of the Court. Among other things stated is the following:
The remarks of Mr. Justice Thompson in the Circuit Court in the case of Clayton vs. Stone \& Hall (2 Paine's Rep. 392), in which copyright was claimed in a daily price-current, are apposite and instructive. He says:
In determining the true construction to be given to the act of Congress it is proper to look at the Constitution of the United States to aid us in ascertaining the nature of the property intended to be protected. "Congress shall have power to promote the progress of science and useful arts by securing for limited times to authors and inventors the exclusive right to their writings and discoveries." The act in question was passed in execution of the power here given, and the object, therefore, was the promotion of science; and it would certainly be a pretty extraordinary view of the sciences to consider a daily or weekly publication of the state of the market as falling within any class of them. They are of a more fixed, permanent, and durable character. The term "science" cannot, with any propriety, be applied The term "science" cannot, with any propriety, be applied
to a work of so fluctuating and fugitive a form as that of a to a work of so fluctuating and fugitive a form as that of a daily changing and is of mere temporary use. Although great praise may be due to the plaintiffs for their industry and enterprise in publishing this paper, yet the law does not contemplate their being rewarded in this way; it must seek patronage and protection from its utility to the public, and not as a work of science. The title of the act of Congress is "for the encouragement of learning," and was not inended for the encouragement of mere industry unconnected with learning and the sciences. . . . We are accord ingly of opinion that the paper in question is not a book the copyright to which can be secured under the act of Congress.
The case of Cobbett vs. Woodward (L. R., 14 Equity Cases, 407) was a claim to copyright in a catalogue of furniture which the publisher had on sale in his establishment, illustrated with many drawings of furniture and decoraions. The defendants, being dealers in the same business, published a similar book, and copied many of the plaintiff's drawings, though it was shown that they had for sale the aricles represented thereby. The court held that these drawings were not subjects of copyright. Lord Romilly, M. R., ings w
said:
This
This is a mere advertisement for the sale of particular articles which any one might imitate, and any one might advertise for sale. If a man, not being a vendor of any of the articles in question, were to publish a work for the purpose of informing the public of what was the most convenient species of articles for household furniture, or the most graceful species of decorations for articles of home furniture, what they ought to cost, and where they might be bought, and were to illustrate his work with designs of each article he described-such a work as this could not be article he described-such a work as this could not be
pirated with impunity, and the attempt to do so would be stopped by the injunction of the Court of Chancery; yet, if it were done with no such object, but solely for the purpose of advertising particular articles for sale, and promoting the private trade of the publisher by the sale of articles which any other person might sell as well as the first advertiser, and if in fact it contained little more than an illustrated inventory of the contents of a warehouse, I know of no law which, while it would not prevent the second advertiser from selling the same articles, would prevent him from using the same advertisement, provided he did not in such advertisement by any device suggest that he was selling the works and designs of the first advertiser.
Another case, that of Page vs. Wisden (20 Lav Times
Rep., N. S., 435), which came before Vice-Chancellor Malins
in 1869 , has some resemblance to the present. There a copyright was claimed in a cricket scoring sheet, and the ViceCbancellor beld that it was not a fit subject for copyright, partly because it was not new, but also because "to say that a particular mode of ruling a book constituted an ob that a particular mode of ruiing
ject for a copyright is absurd."
The decree of the Circuit Court must he reversed, and the cause remanded, with instructions to dismiss the complain ant's bill.
woodbury patent planing machine company vs. keith. (Decided October Term, 1879.)
6. Woodbury filed a caveat May 28, 1846, and his application June 3, 1848. The latter was rejected February 20, 1849, and the fee withdrawn in October, 1852. Under the act of 1870 the application was renewed within the six months allowed, and the patent granted April 29, 1873. No serious attempt baving been made to procure a re-examination of the old application, or to renew it, for a period of more than $t$ wenty years, though during more than sixteen years of that time the improved device bad been in common use with the knowledge of the patentee, it was held that the invention was abandoned before the renewed application was made.
7. The action of the Commissioner of Patents in granting a patent, under section 35 of the act of 1870 , is not conclua patent, under section 35 of the act of
sive on the question of abandonment.
sive on the question of aband onment.
8. The rule of the Patent Office prior to the passage of the act of 1870, that an application rejected, or not prose cuted within two years after its rejection or withdrawal, should be conclusively presumed to have been abandoned, though not always adhered to, had held it to be a question of law in the cases to which it applied, and the effect of the statute was ratber to change the rule than to make the decision of the Commissioner grating a patent an unreview.
able decision that the invention had not been abandoned.
9. Section 35 of the act of 1870 declares abandonment to
be a question of fact, and patents granted thereunder are be a question of fact, and patents granted thereunder are
just as impeachable as those granted under section 24 , wherejust as im peachable as those granted under section 24, whereby the Commissioner is authorized to deal with the question of abandonment as well as public use and sale and origin ality of invention.
10. Abandonment, although a matter of intention on the part of the inventor, need not be expressed in words, but may be gathered from the acts of the inventor.
11. A bandonment may occur as well after an application bas been made and rejected or withdrawn as before, and evidenced in the same manner.
12. The law requires and favors diligence in prosecuting the claims to an exclusive right, and an inventor cannot, without cause, hold bis application pending during a long period of years, leaving the public uncertain whether he intends ever to prosecute it, and keeping the field of his invention closed against other inventors.
13. Circumstances may arise which will excuse delay in prosecuting an application, such as extreme poverty or pro tracted sickness; but in the absence of any such excuse entire inaction on the part of the inventor, coupled with longcontinued public use without complaint or rem
his part, constitute abandonment to the public.
14. The rule of the Patent Office that an application rejected, or not prosecuted within two years after its rejection or withdrawal, should be conclusively presumed to have been abandoned, was not a statutory rule, nor inflexible in its application, but was frequently departed from and abolished before the act of 1870, and was no bar to a movement on the applicant's part to have his application reinstated after withdrawal, or to have it re-examined, or take an appeal, or file a new one, and cannot be regarded as an adequate excuse for a long delay.
15. Woodbury's invention, patented April 29, 1873, was anticipated by the machine made by Alfred Anson in 1843, and in constant use for thirty years.
16. Mere enlargement of a machine to strengthen or increase its capacity is the work of the mechanic and not invention.
17. An objection to the examination of a witness should state specifically the grounds of the objection, in order that the opposite party may have the opportunity of removing it, if possible.
18. Under section 4920 of the Revised Statutes only the names and residences of those who had invented or used the anticipating machine or improvement, and not the names of those who are to testify of its invention or use, are required to he pleaded.
Bill dismissed with costs.
The Sense of Space.

At a recent meeting of the French Society of Biology M. Mathias Duval reported what he believed to be an important discovery in relation to the origin of the auditory nerve. He
finds, in the course of his researches upon the origin of the finds, in the course of his researches upon the origin of the
cranial nerves, that the auditory nerve has two quite distinct roots, the posterior one proceeding from a nucleus, described by all autbors, the other, anterior, proceeding from a nucleus for motor fibers. Some tibers of the anterior root turn back into the cerebellum. Now, we know that the cerebellum is the center for the co-ordination of movements. In associating this anatomical fact with the physiological researches of M. De Cyon, upon the sense of space, and with some patbological facts, tending to prove that vertigo has for a cause a lesion of the semicircular canals, M. Duvai concludes that the anterior root of the auditory nerve forms the nerve of space, of which the semicircular canals are the peripberic organs.
minneapolis Flouring mills.
The pride of Minneapolis, and one of the principal factors in the wonderful growth and prosperity of our city, are the unrivaled and matchless flouring mills which line the bank of the Mississippi River at the Falls of St. An. thony, and whose unequaled products have already given
to Minneapolis flour a world-wide reputation. Twenty-four of these splendid mills, which stand as monuments of Minneapolis courage and enterprise, have already been erected, and others, still more extensive and imposing, are to follow at an early day. A mong the most prominent of those already constructed are the great Washburn A and B, and the Crown Roller mills. The Washburn " A ," standing on the site of the one destroyed by the explosion of May 2, 1878, is $100 \times 244$ feet, is nine stories high, and will, by the adoption of newly invented machinery, have a capacity of 3,000 barrels daily. The Crown Roller Mill, now nearly completed, has a ground surface of $124 \times 144$ feet, is eight stories high, and, using the most improved styles of machinery, will be able to turn out 2,500 barrels daily. Both of them are to be illuminated with the newly invented electric lights, and are, in all respects, the largest and most complete flouring mills in the world. The highest grades of flour are made at these 24 mills, which is eagerly sought for in the markets of the world. The entire daily products of these mills, when fully completed and running, will reach the enormous amount of 17,500 barrels every 24 hours, and requiring, if the mills be run 300 days in the year, not less than $25,000,000$ bushels of wheat for their use alone, or far more than one-half the entire present wheat production of the State.
The effect of this constant demand upon the crop of our State is already well understood by all intelligent business men and farmers, steadily maintaining as it does the price of wheat from 5 to 10 cents per busbel above what it would be if left to be governed alone by the Milwaukee, Chicago, and Eastern markets. The average price received by the farmers of Minnesota for their wheat during the years 777 ' 78 , and '79, by reason of the local market of Minneapolis, is not jess than 7 cents per bushel on the crops named more than they would have received if left to the control of the Mil-
wankee and Chicago markets, or in the aggregate not less than $\$ 7,000,000$ has actually been added to the pockets of the wheat-growers of our State by the existence and operations of the Minneapolis millers. This vast sum of money has not only been received by the farmers to add to their comforts and conveniences of life, but bas gone through their hands to swell the great volume of trade which has built up our towns and commercial centers. This fact alone, now so well understood by the wheat-growers of Minnesota,
is a complete and conclusive answer to charges of political is a complete and conclusive answer to charges of political
knaves and demagogues who occasionally seek, during elec tion campaigns, to represent the Minneapolis millers as the natural enemy and scourge of the wheat-growers of our State. The growthand development of the milling interests of Minneapolis are strikingly shown by the following list of shipments for the years named:


In explanation of the diminished shipments in 1877 and 1878, we would state that in 1877 there was an almost entire failure of the wheat crop in a large territory from which the mills drew their supplies; and in May, 1878, over two-fifths of the milling capacity was destroyed by fire, and in November anotber twelve-run mill shared the same fate.
. Before dismissing this subject it may be of interest to the general reader to know that, in Minneapolis, the so-called "patent process," by which the highest grade of flour is produced, was first developed, and to show its advantage to the State at large, it is only needful to add that before the new process was developed, spring wheat-the only kind successfully cultivated here-sold for an average of twenty-
five cents a bushel below the price of winter wheat. To-day, five cents a bushel below the price of winter wheat. To-day, by the "patent process," the price of spring wheat, such as our farmers raise, is worth more than winter wheat, for the reason that the "patent process" can be applied only tothis
kind of wheat, and the product leads the price in the flour markets of the country
The future of this great interest of our young city it is hardly possible to imagine. As yet it is but in its infancy, and already has its firm grasp upon the markets of the world. ing facts:
In 1875 Mr . George H . Cbristian went abroad with the view of studying foreign milling processes, and introducing, if possible, Minneapolis flour upon the European market. Mr. Cbristian learned much of foreign milling, but met little success as to the other part of bis mission. For two years
following, the quality of our wheat was such as to render it difficult to keep the grade of our flour up to a satisfactory standard, and no effort was made to cultivate a foreign market. In the spring of 1877, Mr. L. Cbristian went abroad to follow still further the previous investigations of his
brother G. H., and to study more closely the flour trade of the leading cities of the Old World, and on his return Mr. W. H. Dunwoody went out to still furtber study the question of direct trade between the Minneapolis manufacturers and the leading flour bouses in England and Scotland. The
came better informed as to the cbaracter of our flour and the advantages of introducing it to their customers, and in 1878 a small direct export trade confined mainly to " bakers' " and low grades was established. Later on, small samples of the "fancy" were ordered for Liverpool, London, and Glasgow, and the trade once inaugurated increased rapidy until it had thus early grown into considerable magnitude, and
not less than 450,000 barrels, or their equivalent in sacks, have been shipped during 1879 direct from the mills in Minneapolis to leading points in the United Kingdom, France, Germany, Spain, and Italy, while direct shipments have also been made to Alexandria, Egypt. To-day there is not a port in Europe to which through bills of lading cannot be obtained in Minneapolis at fixed rates.
English millers and dealers who have visited our great mills during 1879 bave frankly stated that in their opinion the fine grades of Minneapolis spring wheat flour are des tined to supplant the products of the Hungarian mills which have controlled the English market for so many years. The trade thus sought to be establisbed amounted in 1878 to but $\$ 763,281$, but in 1879 had increased to $\$ 3,150,000$. What that trade will amount to in the futurecan be predicted only from its wonderful triumphs in the past.-Pioneer Press.

## The Paris Abattoír.

The slaughter houses of Paris are located at La Villette, on the outskirts of the city, and form, together with a police station, telegraph office, barracks for a small force of troops stationed there, and other buildings, a town of very respectable size. The buildings, which are of stone, were constructed in the most thorough manner by the city under government autbority. The premises are inclosed by a bigh stone wall, and the grounds are divided into regular rectangles by four avenues, intersected by four streets. Tbrough each building runs a series of cours, covere with a glass ceiling, and in these cours the slaughtering is done, the animals beng dressed on wooden frames placed at regular intervals on each side of the cour. A peculiar feature of the business is that of blowing up the carcass as soon as the head and legs are cut off, which the Commercial Bulletin. describes as follows: The body being placed on the dressing frame, an incision is made in the breast near the neck, and the nozzle of a bellows inserted. A man then works the bellows for about fifteen minutes, until the whole carcass is swollen out like a small balloon. The reasons given for this are that it makes the meat look better, more plump than it otherwise would, and that it enables the one who skins the carcass to get the hide off quicker and easier, witbout injuringit. All bullocks, calves, sheep, etc., slaughtered in these establishments are blown up in this manner. Pig butchery in Paris is also conducted upon a novel plan. The pigs are taken into a large round house, having a cupola in the roof to let off the smoke, the floor being divided into triangular dens. A dozen or so of pigs are driven into each den at a time, and a butcher passes along and strikes each one on the bead with a mallet.
After being bled, the defunct porkers are carried to the side of the room and arranged methodically in a row. They are then covered with straw, which is set on fire and the short bristles quickly burned off. After a thorough scorching the pigs are carried into the dressing room, hung up on hooks, and scraped by means of a sort of drawing knife, handled by a skilliul operator, who performs his work at the rate of about one pig a minute. Then the bodies are washed and the entrails taken out and cleaned.
Every part of the animal is utilized in Paris, and that which the American throws away as worthless is made to subserve some use in the Frenchman's economy. The pig's blood is used in the manufacture of the large black sausages which meet with such extensive sale in Paris. The long bristles are pulled out by hand and go to the brush maker.

## Regenerating the Potato.

The well known writer, Mayne Reid, bas been experimenting with Mexican seed potatoes in Herefordsbire, England, thereby doubling his crop and entirely escaping the blight which has been so fatal to the English and Irish potato crop of late years. He says, in a letter to the London Live Stock Journal, that for the last three years he has been cultivating seed which came direct from Mexico, with the result, that while ten other sorts, planted in the same field, tended with like care-in short, cuteris paribus-have all been more or less diseased, bis Mexican "papas" show not a spot of blight. Nor is this all in their favor, for while the best of the other kinds have yielded less than five tons to the acre, they have produced over ten, in common drills done by the plow. Hundreds of specimens were above one pound in weight, some even a pound and a half.
After being stored in ordinary field pits through the winter the Mexican potatoes come out perfectly sound, and seem to improve in quality as the spring advances. As an article for the table he thinks they bave no superior; and be proposes that his government take in hand the importation of Mexican and Peruvian seed as a cure for the potato blight.

## Bonesilate.

A new material, called bonesilate, has been added to the manufactured products of Newark, N. J. Its basis is bone ust. It can be polished and colored, and is barder than cel. nd . It is used for buttons, ooor knobs, billiard balls, and other articles now made of ivory and hard rubber.

