For a Philadelphia Syndicate to some wonderfully rich but unknown gold territory on the western coast of the coun-try. The agricultural resources of Mexico are little known and have been as little tested as its mines, and there is enough untilled land here to feed the whole United States if it were cultivated. Just now coffee planting is being largely undertaken and new sugar and coffee fields are being planted in a number of the States.

Americans know but little of the Mexico of the present. They would consider it an evidence of ignorance if a Mexican had United States but ninety-nine Americans out of one hundred cannot name, without looking at the geography, 5 of the 27 States which make up this great Republic, and the majority of them look upon the whole country as about as large as one of our sized States. The fact is, Mexico is one-fifth as large as the United States, in-cluding Alaska, and it is six times as big as



A Group of Natives.

Great Britain. It is more than three times as large as Germany, and you could lose three countries as big as France inside of it.

Where Like a Great Horn

it is fastened to the United States, it is as long as Indianapolis is distant from New Tork City, and a line drawa from the root The hore at California catacornered across it to its tip at Guatemala, would be as long as the distance from New York to Denver This horn is about 150 miles wide at the bottom or tip, and about 800 miles wide at its it embraces the Gulf of Mexico, and the Pacific Ocean washes its other side.

It is not a smooth horn by any means. Great mountains lie all along its top, and this top is a vast rolling table-land, the most of which is a mile above the sea. I had imagined this great Mexican plateau which runs from the North to the South It is rolling and is made up of desert wastes, rich valleys and of mountains which have for the past 200 years been furnishing a great part of the gold and silver of the

Population of Its Cities.

Mexico is a land of good-sized cities. Its capital, which is away at the south, has more than three hundred thousand inhab-itants. Gundalahara has 100,000 and there are a number of towns the names of which are practically unknown to us, which have 25,000 and upward. It is a land of many climates. Along the coast you have the tropics with all of their rich vegetation, their fruits, and also, I learn, their tigers and tarantulas. In the higher mountain regions it is cold, but on this Mexican placan you find the ideal climate of the world. plateau constitutes the greater part

of Mexico, and this may be called the climate of Mexico. Here the climate is the perfection of a pleasant June in Ohio the year round. The air is as pure as that which weeps over Egypt from the desert in win-er time, and South Italy and Greece can urnish no more beautiful skies than these, am now more than a mile above the sea, and this is the level, not of a point on a mountain side, but a plateau upon which the biggest nation of the Continent, with the of Russin, could be lost. There is bluer than those of the United States. The nir is so rare that the eye can see many ndles farther than with us, and it affects the

One Was Breathing Champagne.

The skies are closer to the earth here than at home, the moon shines at night with a greater brilliancy, and the diamond-like wars remind me of the luminous heavens which hang low at night over the Gulf of iam. I have been in Singapore, almost on the equator, where the thermometer stands at about 80 the year round and where the air is always saturated with moisture. Here I judge the thermometer averages about 70, and the air is as dry and exhibitating as that of the equatorial Malacca is moist and

Think of a country where the crops grow in luxuriant greenness all the year; where the rose grows into trees and flowers bloom forever. I saw yesterday men harvesting crops in one end of a field while other men were planting the same crops at the other. Upon parts; of this, plateau, strawberries are ripe during every week of the year, and everything seems to grow at any time it is planted. The rule about Silno is two crops of wheat from the same ground a year, and I see that in harvesting the

Wheat Is Pulled Root and All from the ground, and this air and sun form from the ground, and this air and sur form the only manure. This part of the Mexican plateau is like a garden. There is some irrigation, but in many places the crops grow without it, and I rode for miles yestergrow without it, and I rode for miles yester-day through lands which were as rich as guano and as black as the rich soil that makes glad the Valley of the Nile. The lands along the coast are, I am told, even richer than these uplands, and the beauti-ful valley in which Mexico City is located is one of the garden spots of the world.

Mexico City is about 7,000 feet above the

sea. My ride of yesterday was at an alti-tude of more than 5,000 feet above the level of the sea. The valley through which we cassed was lined on both sides with mountains, which, in the hazy distance, looked as though they had been dusted with the frosty silver which is so abundant within them, and as we rode on through the green I pointed to them and asked one of my Mex-ican follow-travelers what lay beyond. He replied that on the other side of the mountains there were other little valleys as rich as that through which we were passing, and the greater part of Central Mexico wasmade

Where Only the Cactus Grows. any means all green. There are vast deserts like those of Arizona and Nevada, and in coming here through the great State of Chilumhua on the Mexican Central Railroad, I traveled for two days through a blinding laze of dusty sand where the only green thing was the cactus which grows there in all its beauty and in all its ugliness. These des-erts are in some places at for grazing, and Mexicans tell me that on them are to be the great cattle-raising grounds of the future. Vast tracts of them will be regained by irrigation, and thousands of acres have already been reclaimed. The land, when irrited, makes splendid cotton ground, and one tract produced 37,000 bales last year. A Runder of new companies are now being formed and Americans are largely interested in them. The low lands which slope from the plateau down to the coast do

South rather than in the north. Still the much more fertile field than the well-These hats were gorgeous in their silver and gold trimmings. Some of them had ropes of silver around them almost as thick as

your wrist, and they formed only a part of the glittering Costumes of These Mexican Dudes. The clothes below them shone with silver buttons and braid. The pantaloons of some of the men were striped with silver buckles, while to the waist of each, fastened by a

leather belt filled with cartridges, hung a big silver-mounted revolver. At many of would gallop up on horses as gorgeously ap-paralled, and across the country we saw now and then troops of cavalry dashing over

The costumes of the common people were fully as picturesque, and both men and women presented rare bits of color and rewomen presented rare bits of color and re-minded us of the dance of the nations in a spectacular extravaganza. The lower classes of the men of Mexico dress in cotton, but they wear blankels of all the colors of the rainbow about their shoulders; and they drape these around themselves in a way that adds diguity and grace to them. Many of these blankets are of red flannel and if you will take a blanket of this sort and throw it around your shoulders and over your back some morning as you hop out of bed in your snow-white pajamas, you will get some idea of the Mexican peon. Your hair, however, must be as black as the wing of the raven; you must stain your face with walnut juice and put on your head one of these gorgeous sombreros in a more or less dilapidated condition. Foot of the Modern Aztec.

You must get a piece of dirty sole leather so large that your foot can stand in it and leave a half inch of space all around and tie this to your feet with leather strips, first cracking your heels and blacking the soles of your feet until they look more rough and tough than the leather itself. After you have done this you will present a fair caricature of the Aztec of 1891. You are now, however, only the Aztec at rest. The Aztec nowever, only the Aziec at rest. The Aziec at work is a different matter, and you will see him here in as many different occupations as are possessed by his brother fellow in the land of Egypt. He carries the heavy burdens of the country upon his back. He lags about Mexican beer in pig skins, as the Repusals water and the second of the country upon his back. engalee water-carrier carries the water he has for sale, and you see him in a hundred ands where it joins on to us. In its curve | different forms on every street, and in every one he is a new picture.

The women are as strange as the men, though their plumage is less gay. Those of the wealthier classes are dressed in black, and the crowd at one of the cathedrals looks

A Plague Had Struck the Town

and all the women were in mourning. In these interior cities of Mexico the better class of women wear no hats, and their heads are either bare or covered with a black shawl, out of which their olive-complexioned faces shine and their dark, lustrous eyes look at you with a strange won-der. There is no greater beautifier than black, and I believe these Mexican and Spanish women get a great part of their rep-utation for beauty from the clothes they wear. At first sight they appear handsome, but a close examination results in the dis-covery that most of them are rather homely than otherwise, and that many are decided-

The Indian women are much prettier than The Indian women are much prettier than their wealthier sisters. They have a striking beauty when under age, but after 30 they grow old rapidly, and hard work and poor food makes them wrinkled and old at 35. They are more picturesque than the higher classes, and their dress takes you back again to the East.

Show Only Half the Face. They often wear dark blue cottons and about their heads they drape a cotton shawl or reboso at that only the upper half of the face shows. Some of them wear bright red skirts and white waists and man; of than go bare-footed and stop not to rearrange their clothes if more of the ankle shows than our ideas of etiquette allow. The children of the Aztecs are more or less naked-gener-

than those of other people in the same condition of poverty, and the self-respect which they possessed, when under Montezuma

oats in this country, so that last year the crop was largely a failure everywhere east of the Mississippi river. In Pennsylvania and New York it was almost a total loss. When the plants were from four to six inches high their leaves turned red and died; no head was formed and no seed de-

velopment usualiv. Furners in various States have appealed to the Department of Agriculture for help, and an investigation has been made which has brought about the discovery that the complaint in this case is caused not by a fungus but by bacteria. The tissues of the out leaves were found to be actually swarming with these minute organisms, which bored into them and ate them up. Ordinarily, where fungi is concerned, it is practicable to destroy them by spraying with solutions of sulphate of copper and other mixtures, but the expense would be too great for oats. It was found that the seed produced in the infected district was produced in the infected district was cov-ored with the bacteria, and it is feared that the planting of it at this season will result in bringing up a diseased crop for the pres-ent year. Therefore, it has been recom-mended that farmers procure all their seed oats from Michigan or other portions of the country in which the trouble has not yet appeared. It is not yet known how the appeared. It is not yet known how remedy will work.

If a Blaze Gets Started the Ruin Is Worse Than in Ordinary Structures.

The Mexican plateau is not, however, by as fireproof, and yet a leading architect told

A number of new companies are now being formed and Americans are largely interested in them. The low lands which slope from the plateau down to the cent do not need irrigation. They have an inmerse rainfall during the rainy season, and vegetation grows as rank as that of the jungles of India.

Like Palestine in Spring Time.

The whole of this country particles of the Orient. The moment you cross the Rio Grande you are in the lands of the romantic East, rather than in the practical West. The mir, the sky and nature are those of Palestine in spring time, and the architecture reminds you now of Moorish Spain, and again of the much lutts of Egypt. The people are among the most picturesque on the globe. Every man is a fit subject for a painting, and the American artist, Mr. Church, who has spent seven winters in Egypt sketchire, sove be finds Mexico a "Trade Name."

Important Trade Name Decision.

Judge Thayer, of the United States Circuit Court at St. Louis, has recently handed town an opinion, and granted a perpetual injhanction nagainst the defendants in the case (of The Hosteter Company against the Brayer allower. Distilling Co., "prohibiting to advertising, manufacturing or selling or allow article of stomach bitters, either in bulk, by the gallon or otherwise, or in any way making use of the name "Hosteter" be not used, but the suggestion made to the purchaser that he can put them in the empty Hostetter bottles, and purchasers would not discover the difference. His decision supports the Hostetter" in connection with either the manufacture or the globe. Every man is a fit subject for a painting, and the American artist, Mr. Church, who has spent seven winters in Egypt sketchire, sows be finds Mexico a "Trade Name."

Trade Name.

Important Trade Name cents (court at St. Louis, has recently handed town appliance and perpetual injhanction name pointon, and granted a perpetual injhanction name pointion, and granted a perpetual injhanction name and permet discussion and permetal the defendants in the case (of Tho Ho Important Trade Name Decision.

TAKING IN NEW YORK.

Bessie Bramble, in the Lowly Role of a Provincial, Visits

THE ONLY CITY ON TOP OF EARTH. Amusin' Ways of a People Who Imagine

There Are No Other People. STOLIDITY AND STUPIDITY GALORE

(WRITTEN FOR THE DISPATCH.) "Home-keeping youth have eyer homely wits," saith Shakespeare. It may be for this reason that people who travel but little find the "sleepers" on the railroads such a tax on temper, mind and body. It may be that in their country freshness, or provincial greenness, they are not up to the rush of the present age, which requires, for the purposes of locomotion, the housing-for the time being-of men and women in shelves indiscriminately. The Pullmans, of course, are up to the knowledge of their maker, but they are behind as to practical comfort-and modesty.

Hogs are common everywhere, sad to say, but on "a sleeper" they are more than usually abominable, when the exigencies of travel compel women to go at night and "put up" with things as they happen. Pullman, they say, has a great head, but if he cannot contrive a better plan than the present he should retire on his millions. Great improvements are to be desired in the way of night travel. Before the World's Fair comes off at Chicago some radical changes should be made, if it takes the best brains in the country.

Coming Into New York.

New York is an overpowering sort of a place. On approaching Jersey City on the Pennsylvania Railroad the people begin to rush. Overcoats, grips and traps are seized upon with an air which seems to slap into them the conviction that they are to be ready for a great bounce over a deep preci-pice, or to take their last chance of sur-vival in a million. Before the train stops men and women are all in the aisles, as if their final salvation depended upon jump-ing off before the last snort of the engine, or the final turn of the wheels. Helter kelter, pell mell, off they madly rush for the ferry, hurry-scurry on to the boat. Tearing through with a devil-catch-the-hindmost sort of expression, they never stop nor take breath until the prospect of engulfment with the menacing waves doth give them cause. The prospect of landing sends everybody to the front with apparently one idea animating the entire multitude, which is to get off that the entire multitude, which is to get off that boat in the shortest possible time achievable by mankind. It would seem as if there would never be another boat, or train, or car but the first, which they are stretching every nerve to reach, and yet everybody "gets there" finally. This incessant, everlasting rush is one of the distinctive features of New York life. It retires the reserved of New York life. It strikes the traveler at

Must Rush or Get Left.

In the Pittsburg local trains passengers are implored and commanded "to remain seated until the train stops at the station," but a passenger who does so on "the elevated" in New York will get "left" for a certainty. A more hunted, harassed and heartless set of men than the train and street car conductors of New York have yet to be discovered. Where they will go to when they die is not known, but it must be soulharrowing to any human being to know that he has no time to answer a civil question, that he is too much rushed to speak plainly, that he is too full of business to jerk out more than a rude yes or no when asked any-thing, and that the company does not pay him to be otherwise than disagreeable and dominering. Oh, these non-rendertors of domineering. Oh, these poor egnductors of New York, both on the "El" and below!
What driven, forlorn, tramped-down fellows they seem to be! How much they do the Artees are more or less naked—generally more in the back districts—though even the poorest of those I have yet seen have a short skirt to hide the upper parts of their bodies.

The clothes of all are as a rule cleanlier bodies.

than those of other people in the same condition of poverty, and the self-respect which they possessed, when under Montezuma they were the most civilized people on this continent, clings to them still, and many students of Mexican questions believe they are a people with a future.

FRANK G. CARPENTER

BACTERIA IN THE OATS.

The Disease That Made the Pennsylvania Crop Last Year a Failure.

A new disease has recently attacked the oats in this country, so that last year the

as to his pay. Perhaps It's in 'Em.

But still, after all, who knows? Some men are born ugly and hateful and mean. The wealth of a Vanderbilt would not improve their morals or manners. If they could "knock down," or take extra toll on could "knock down," or take extra toll on every passenger, some conductors would not be any more politic or less sulky than at present. Whether it is due to New York air, the regulations of the companies, or the total depravity theory as to mankind, I do not pretend to say, but the manifest truth as to horse car and elevated conductors is that they are a support to the conductors. as to horse car and elevated conductors is that they are sour, snappy, and uncivil. The rush in 'which they live, and move, and have their being may account for shattered nerves, indigestion and consequent crossness and ill-nature—the fact remains. Wier Mitchell, Dr. Hammond and other experts on nervous strain would so decide, I doubt not, if they could bring their great minds down to "rapid transit" subjects.

Attes an Appetite for Liquor.

New York World.]

There are greater evils than those of indigestion and ill-temper arising from bad cooking, it would seem. In a paper upon the social questions of the day and upon labor reform, where the opinions of such men as Seth Low, Henry C. Potter, Samuel W. Dike and others are given, there occurs this

The transient traveler little heeds or cares for these minor discords or discomforts, but those interested in social science could those interested in social science could hardly fail to note them as a factor in the study of mankind. Another corresponding class to these, I noted, were the shopgirls. They have wits so quickened and sharpened that they know outsiders at once. Everybody out of New York is a "country jake," to be maltreated accordingly. Nothing is more funny than the airs they put on. No one on the face of the earth one on the face of the earth

Than in Ordinary Structures.

New York Herald.]

There is hardly a new hotel or business building in New York but that is advertised as fireproof, and yet a leading architect told me the other day that such a thing could not exist.

"They may be fireproof to all intents and purposes," said he, "but if inflammable material be in them and it get afire, the iron girders and beams will so expand that they will let the floor above down. When one if floor falls in an iron-beamed building they all ge, and then the side walls fall. The ruin is usually more complete than it is in an ordinary building. We do not build these iron fireproof fronts any more, because in case of a fire they fall forward and demolish the building scross the street."

Can Be More Coldly Condescending than the three-dollar-a-week girl of a New York store, when she has "sized up" her outlying districts of heathendom—say Pitts-burg. She furnishes a type and no end of tan to such customer, but she is serenely unconscious, and thinks it is no use to "bother" over such people. While in contemptation of her ways and manners, we sometimes think what a hauling over the coals she would get if "the boss" knew of her "goings on." We have some of this contemptuous condescension of shop girls to coals she would get if "the boss" knew of her "goings on." We have some of this contemptuous condescension of shop girls to coals she would get if "the boss" knew of her "goings on." We have some of this contemptuous condescension of shop girls to coals she would get if "the boss" knew of her "goings on." We have some of this contemptuous condescension of shop girls to coals she would get if "the boss" knew of her "goings on." We have some of the scheme of a knowledge that in this respect, at least, New York "takes the cake. There really should be a school of manners for business, at your deal the country of the outlying districts of heathendom—say Pitts-burg. In our deal to could in the three-dollar-a-week girl of a New York store, when she has "sized up" her outlyi Can Be More Coldly Condescending

they wished the customer a thousand miles away; not to gauge their politeness by a "sliding scale" as to appearance.

It is now the "swell thing" to dress with exceeding simplicity and absence of show. Only those outside of the "Four Hundred"

50 to speak—of any town "put on style" Only those outside of the "Four Hundred"—so to speak—of any town "put on style."
Blue blood is not advertised by fuss and feathers, and furbelows and flunkeys. Blue blood quietly walks, and modestly buys, while the nobs of nobdom kick up the dust in every direction. It is not on these last that the merchants make their living, but upon the multitude of small buyers. This is so well known that ne clerk is so polite to the plain everyday people as the proprietor. On this one point clerks want much instruction—especially in New York, where schools of manners are so greatly needed. That editor, who would cater to a few nabobs, rather than to a million readers, would assuredly come to grief. On the principle of serving their largest patrons, proprietors than to a month of the principle of serving their largest patrons, proprietors them. An Experience at Tiffany's.

An Experience at Tiffany's.

I am not aware that any great grief had fallen upon the Tiffany establishment on the morning of my visit or not. But it is very certain that the clerks were all as solemn as undertakers, and nearly as mum as gravestones. Is this manner of men a feature of the trade? Is such stiff, staring, solemnity the ctiquette of dealers in gold and precious stones? How any young man can buy an engagement ring in that establishment without a chill over his rosy visions and glowing hopes, it is hard to see. How anyone can purchase a wedding present, a birthday gift, a sweet anniversary momento without having it impressed upon him that this life is a vale of tears and all is yanity during the process, I cannot imagine.

during the process, I cannot imagine.

Those grim, tomb-stony, frigidly taciturn men all around conveyed the idea that any purchases of less than \$1,000 or so were hardly worth consideration. They look as if life were a terrific struggle, a horrid grind, with smiles at a discount, and only sorrow a verity and non-election a cer-

Another thing I noted in a morning's hopping was the dreadful prevalence of red tape or something of the sort. An icc-cream soda could not be secured without hunting up the cashier to get a check. Why should this work be put upon the customer with money in hand? To buy necessary hair pins for 3 cents the circumlocution took almost half an hour. Why such a rushing people should be so slow in methods of business is something wonderful to con-

Better Than Barnum's Display. I took in the "passing show" at Central Park of an afternoon. This is where the New Yorkers disport themselves and display their tastes and points from the "four hundred" down to the million. Barnum, in his day, was wont to pride himself on his "greatest show on earth," when you saw all the animals for 50 cents, but here in New York you can see all the turnouts and tommy neddies and "hogs" for nothing, or, at most, 10 cents car fare. It is a mighty good show, too—to the student of human nature. The noodles and the nincoms are here in plenty, and they require no label to here in plenty, and they require no label to distinguish them.

What amazes a "wild Westerner" from What amazes a wild westerner from Pittsburg is the growth of flunkeydom. Two stiff flunkeys, square shouldered, ramroddy, and solemn as marble statues, are now, it would seem, the proper thing. Our grandfathers hooted and scoffed at the wearing of a livery as a mark of servitude, but democracy seems to be on the down grade in New York. Pittsburgers should grade in New York. Pittsburgers should take notice that to be real out-and-out swells they must have a stunning "victoria" or a drag, a pair of bob tailed horses with silver mountings and a couple of flunkeys done up in livery of knee breeches, yellow-topped boots, high hats, closely-buttoned coats and dazzling buttons. In their high, choking collars, their faces like cast iron, and their figures as stiff as graven images, these men sit up before or behind, as their proprietors choose, and give token that their employers are aping the aristocracy of Europe.

A Little Off on Good Looks. The women who are advertised by such a stunning rig are usually homely, stupid-looking and gaze out upon the foot men and foot women as if they wondered why such people were allowed to desecrate the sacred precincts of the park. They lean back luxuriously and possibly thank God they are not as the other people "air." As Schenley Park is looming up as a place for display, perhaps it may be as well to say that the custom is, so far as I can see, for an ugly fat woman—or a scrawny lean one ngly fat woman-or a scrawny lean oneto dress herself up in stunning style and ride forth in lonely splendor, with a dog upon the seat arrayed in ribbons to match. If a New York husband and wife are together they look silently "glum," as if they had just had a Mrs. Caudle or pot-andkettle-time of it. But then this sour silence may come of the flunkeys in hearing, who, though they may apparently be wax figures like those of the Eden Musee, are always

sharp to hear what the master and missis are a-saying to each other.

But also the wrinkle in the rose leaf, the canker that prevs upon these aristocratic people is the soul-harrowing sorrow of being imitated by the vulgarian people. Victorias, bob-tailed, high-stepping nags with gor-geously attired footmen and coats of arms and all the rest of it are easily obtainable for money, and exclusiveness cannot be secured in the park. The common herd cannot be shut out, and they have pretty much all the fun there is in it.

Who Will Be the First. I wonder who in Pittsburg will first dis-play in Schenley Park the liveries and flunkeys. By the way I should announce that when the aristocratic occupant of a car-

riage is in mourning the coachman and footman are arranged in dead black with a weepers band of deep affection on their hats. The dog is also decorously decorated with black ribbon and wears a sad countenance to be in keeping with the sorrow of his owner. After witnessing the daily circus at the park I drove down Fifth avenue in a rattledy bang stage, and wondered what possessed the old stagers of the "four hundred" to hold out against a traction or electric line that would ensure much more of quiet and rapid transit. Is it because they are so stupid, or because they hold out against the comfort of the people? More anon.

BESSIE BRAMBLE.

BAD COOKS MAKE DRUNKARDS.

Insufficient and Poorly Prepared Food Cre ates an Appetite for Liquor.

paragraph:

"Insufficient food—more often, insufficient variety of tood—and poorly cooked food create a craving for strong drink and create intemperance. One of the first physiologists in the world is authority for this."

WESLEY, son of Mr. M. P. Donaldson, Talley Cavey, Pa., for over two years deaf from chronic catarrh of the throat and middle ear, has had his hearing fully restored and cured of the catarrh by a course of treat-ment by Dr. Sadler, 804 Penn avenue. He could only hear a watch on pressure before

Suits for the Boys.

Mothers, fathers and guardians should see the boys' suits we will sell at \$1 90, special for Monday. They are well made, pleated or plain, and very desirable patterns; sizes 4 to 14. P. C. C. C., PITTSBURG COMBINATION

CLOTHING COMPANY, corner Grant and Diamond streets.

When You Buy Diamonds

Go to an old-established house, where you can see first-class goods at reasonable prices. Special inducements offered this week in diamond rings, eardrops, lace pins and studs, at Hauch's Jewelry Store, No. 295 Fifth avenue. Established 1853.

H. J. Lynch, 438-440 Market Street, Will offer ladies' spring jackets, reefers, embroidered fichus, lace capes, jerseys and summer shawls at greatly reduced prices for the next 20 days. Call and see them.

Bancus for lodges and societies at Mc-Mahon Bros. & Adams', 53 Fourth avenue.

DABBS, the well-known photographer, says June is the best mouth in the year for making fine photographs. CAREFULLY read the article, "A Word About Carpets," second page.

J. H. KUNKEL & BRO.

DANGER ON THE SEA.

More Risk Walking Along the Street Than in Ocean Greyhounds. THE FASTER THE SAFER. TOO.

Experiments in Aerial Navigation That Attract Attention.

MACHINE FOR POLISHING SHOES

W. H. Rideing, in a recent article, adduces facts which tend to reassure the publie as to the actual amount of danger involved in crossing the Atlantic. He states that in spite of all the perils by which the passage is menaced the steamers of the transatlantic lines are so stanchly built and so capably handled that a man is less likely to meet with accidents on board one of them than he would be in walking the streets of a crowded city. Those who are the best qualified to know, declare that increased speed means greater safety. Swift steamers are able to escape from areas of fog and storm sooner than slower vessels, and are more easily handled in thick and in heavy weather. From the rapidity with which they can be maneuvred, they can avoid collisions which would be inevitable under some conditions with slower ships; if a collision becomes inevitable their impetus enables them to cut the obstructing vessel in two with comparatively little injury to themselves.

As a most comforting confirmation of his opinions as to the safety of Atlantic travel, Mr. Rideing puts forward the testimony offered by the record of 1890. During that year there was no less exposure than usual to dangers; nearly 2,000 trips were made from New York alone to various European ports; about 200,000 cabin passengers were carried to and fro, in addition to nearly 372, 000 immigrants who were landed at Castle Garden. Not a single accident was re

Experiments in Artificial Flight. condensing engine will furnish the power, In his previous experiments, Mr. Maxim found that one-horse power would carry 133 pounds 75 miles an hour. It was also proven that the screw would lift 40 times as much on the propelled plane as it could push. A motor has been built weighing 1,800 pounds, which pushes 1,000 pounds, and will consequently lift 40,000 pounds. As the estimated weight of engines, generator condenser, water supply (two gallors) As the estimated weight of engines, generator, condenser, water supply (two gallons), petroleum (40 pounds per hour), and two men is about 5,000, the indefatigable inventor is very confident of ultimate success.

Facts About Truck Farming.

CASH OR

For the first time the industry known as truck farming has been made the subject of census investigation. It is found that upwards of \$100,000,000 are now invested in this industry, which involves the utilization of over 500,000 acres. Its annual products amount to \$76,517,155, requiring the services of 230,893 persons, aided by 75,806 horses and mules, and \$8,971,206 worth of farm implements and machinery. The income of this comparatively new traffic, after paying for labor, fertilizers and seeds, is estimated at \$52,000,000. Truck farming differs from

market gardening in that the latter belongs to small holdings within easy driving dis-tance of cities and towns, while truck farmtance of cities and towns, while truck farming is the production of green vegetables on tracts remote from market, the truck farmer being dependent on water and rail transportation for the delivery, and on commission men for the sale of his products. At very considerable portion of the truck products consumed in our great cities is grown from 500 to 1,000 miles away. In a consideration of the various districts whence these supplies are derived, one is struck by the fact that the centers of truck farming are moving southward and westward.

Scientific Value of Phosphate Records. addition to their immense commercial value, form a wonderfully rich field for the investiform a wonderfully rich field for the investigations of the scientist. Their formation undoubtedly extended through many ages. Fossils from the age of reptiles to the age of man are found embedded within them, and the history of the intervening periods are written in their strata as in a book. The great bulk of these deposits were formed of the excrement of prehistoric animals, and large quantities of the remains of the animals themselves are constantly brought up by the miners. The greater number of these animals belong to species now extinct. Remains of land animals of every kind, from the great mastodon to the diminutive bones of prehistoric man are found in abundance. A 30-foot shark of the present time has a tooth half an inch long, but in these deposits thousands upon thousands of sharks' teeth are found which are over six inches in length, and with a length of body in proportion.

Boot and Shoe Polishing Machine matutinal "shine" to be achieved under new conditions of ease and economy. The machine is so constructed that the operator can seat himself in front of it, place his feet on the rests each side of a rotary roller, brush the inner sides at the same time, and by alternating the feet from one rest to the otber, enable the whole surface of the shoe to be effectively polished. Underneath the brush is a depressible foot plate set on springs to afford easy position for finishing the top of the shoe. A belt from a driving wheel engages with a V-grooved wheel on the shaft of the brush and drives it at a multiplied speed. The shoes are cleaned of dust or dried mud very quickly and the blacking is applied in the usual manner by a daubing brush, after which the polishing process is quickly completed. natutinal "shine" to be achieved under new process is quickly completed.

A late invention in dental practice is device for protecting the lower lip of the pa-tient while operating. It consists of a suit-Experiments in Artificial Flight.

The latest experiments of Hiram J. Maxim in aerial navigation have given results which are attracting serious attention. A large machine is being constructed of silk and steel, with a plane 110 feet by 40 feet, with two wooden screws 18 feet in diameter, very much like the screws of ocean steamers, only with broader blades. A petroleum condensing engine will furnish the power, In his previous experiments, Mr. Maxim found that one-horse power would carry 133 pounds 75 miles an hour. It was also Connecting a Steamer by Telephone.

Cloud Photography.

A great deal of remarkable data, which is of immense value in the preparation of weather forecasts, has lately been compiled from an investigation of cloud photographs. The range of observations extended from clouds floating less than one and a half miles high in air moving at seven miles an hour, to nine miles above the ground in gales blowing 65 miles an hour, while the surface wind was only agentle breeze of five miles an hour.

The phosphate deposits of this country, in

A system has been devised by means of which a ship having a telephone installation which a ship having a telephone installation on board, can be placed in connection with the central exchange whenever it comes into port. A telephone is placed in the captain's office, and the wire connecting with it is attached to a flexible cord, fitted with a conductor at the side of the boat. The wire leading from the exchange is brought down to a corresponding position on the dock and is also fitted with a conductor. When the ship comes into port, all that is necessary is to make the connection, which is simply done, and the purser can at once communicate with any of the business houses of the town.

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for \$10. -

for \$16.

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