residence in the State of Zulia, he has only met with one true specimen of lignite. This specimen was found near aware whether it contains any coal; but between Escuque given under the directions of District Engineer William H. was the first time he ever found actual live bait in the trees. and Bettijoque, in the town of Columbia, petroleum wells of Cunningham, of the third district, and a detail from Engine an inferior quality are abundant. Reporting generally on No. 25, under Captain George W. Frost. Mr. Morse, the the coals which have been so far discovered in this district, inventor, was present, as well as District Engineer Regan Mr. Plumacher states that the driest and most compact of and Chief Green, who expressed himself more than satisfied all is that of Tule, and after the many trials to which he has with the results attained. The nozzle, which was securely EMIGH 28. BALTIMORE AND OHIO RAILROAD COMPANY. STEsubmitted it, he is able to place it among the coals of the fastened to a heavy section of plank, was bolted to the best quality, serviceable for all those purposes for which the pavement, and the power was furnished by the engine in best lignites are advantageously employed. We further the basement of the Mechanics' Exchange, on Hawley note that, however great the riches manifest on the surface street. The pressure, each trial, was 160 pounds. The first mense coal deposits from which those substances proceed. the last through a 1% nozzle and two lines. The stream in period?" This conviction, which is derived from the nature and cir-leach case was more than expected. Upon the level a cumstances connected with the inexhaustible fountains of tremendous volume of water was thrown for a distance of this saving are exceptionally embarrassing. petroleum, asphalt, bitumen, and coal already mentioned, at least 250 feet, and when played in a vertical direction, 3. Although this rate may possibly be less than the desupports the opinion that few countries possess the mineral the water was thrown completely over the five story build. fendant's actual gain, in the absence of more exact means of wealth that abounds in the regions around the lake of Mara- ings on Franklin street. The handling of the pipe was con- computing what that gain was, the court determines upon caibo; and the opinion is expressed that if these coal depo- ducted by one man, who had not the slightest trouble in twenty-five dollars per car per year as the proper rate of not yet been discovered, it is owing to the fact that by far It is the inventor's idea that for street service the nozzle cases. the greater part of its territory is at present in the wild and should be mounted on a four-wheeled hose carriage, which desert condition in which it was found at the conquest. could be separated at will, the rear wheels having the noz-The government has never interested itself in an exploration zle and the front wheels the hose. of the district, neither have individuals done so, although many may have possessed the means and the knowledge adequate to such an undertaking.

A Big Load of Cotton.

On Saturday, April 2, there arrived in New Orleans the Mississippi River steamer Henry Frank, with the largest cargo of cotton ever brought into the Crescent City-9,223 bales. Other freight brought this cargo up to an equivalent of over 10,000 bales. The Frank is a stern-wheel steamer the Negro, but C. superbahas an immense range, being found of not unusual size, but specially designed for the transportation of baled cotton. Of this tremendous cargo, only 2,500 bales were stored in her hold, the balance being built There are several varieties of C. El Dorado. The most beauup over the entire steamer, so that her appearance was that of a floating fortress. Only her smokestacks, escape pipes, pilot house, and wheel were visible. Here and there port holes were located to admit air to the furnaces, or ingress and egress to and from the cabin. The bales were tightly I have seen) was a tall growing epidendrum (?) which propacked, fourteen tiers high, the joints being broken as in duces its flowers from the top of the stem. Six specimens brickwork. A force of twenty men were constantly on the alert with appliances for quenching any fire that might break out. The cargo was insured for \$400,000, and the average weight of each bale was 450 lb. The Henry Frank's cargo was picked up between Memphis and New Orleans, and its arrival safely at the latter city evoked the water, and very common in low forests), which has poigreat interest. When it is remembered that 4,000 bales of soned my hands and face. I propose to distribute among the ers had utilized these natural elevations by erecting thereon non-compressed and 6,000 bales of compressed cotton is orchid growers at home specimens of this cauchy. It should a number of temples, pyramids, and palaces, and had conconsidered a large cargo for an ocean-going steamer, the be found in every hothouse, and it would show the lover of size of the Frank's load of the non-compressed article becomes more apparent. The freight would average \$1.25 per bale, and the money advanced shippers by the boat on account on this trip was over \$20,000.

A Cracked Volcano.

abundant eruptions of smoke and sand, without any subse- consigned to the Berlin Fishery Association, and the rest to 1150-1180, and that it was in a perfect state of preservation quent flow of lava. In one instance, after profound subter- the Société d'Acclimatation, of Paris. Mr. Mather has re. at the time that Cortez invaded Mexico. This opinion was ranean rumblings and numerous earthquake shocks, there cently adopted a mode of packing for shipment which dif, strengthened by a conversation with two well-informed appeared on the eastern side of the mountain a great cloud fers materially in detail from that employed last year, in the Spaniards whom the explorer encountered in San Juan of vapors and ashes, which escaped by a crevice nearly three course of which he shipped 700,000 eggs with a loss of only Bautista, who declared that there were to be found in ancient miles long. The snows melted suddenly around the summit 7 to 8 per cent. It was the earlier practice to place the ova Spanish records statements to the effect that this city was of the mountain, jets of hot vapor escaped at many places, in shallow trays composed of a wooden frame with a bottom not destroyed until after the town of Vera Cruz was laid and the small muddy craters of the western declivity became of canton flannel. The trays were placed one upon another out. M. Charnay is satisfied from indications he observed very active, as is usually the case on the approach of a great in a vertical position in a compartment directly beneath an that there are remains of at least two other Toltec cities eruption. But to the surprise of all observers, within thirty- ice box, from which water a little above the freezing point further up in the adjacent mountains, but further investisix hours afterward the volcano had returned to a state of and well charged with oxygen constantly percolated. In the | gation is postponed for the present. perfect calm. Such a phenomenon has never before occurred new method the trays are put into tin boxes one upon the within the memory of man. Vicenzo Tedeschi di Ercole other until each box is full. A well fitting cover is then cone of Etna as long as the present crevice is open.-Ann. what less space. de Chim. et de Phys.

Scientific American.

Trial of a Fire Nozzle.

A trial was lately had in Boston of the Monitor or Uni-doubted. At all events, there was bait. What a blessing it

Orchid Hunting along the Rio Negro.

In a recent letter to the World, written at the little settlement of Tauapassua, Rio Negro, Brazil, Mr. Ernest Morris corrects the statement made in a previous letter, that the prince of cattleyas, C. El Dorado, is a habitat of high forests. It is a native of the lowlands only, the error now corrected having arisen from his mistaking a schomburgkia for is thereby limited to the making of spiral welded tubes. the cattleya. Cattleya El Dorado, he says, is found only on not only throughout the whole Rio Negro region, but up the Amazon as far as Teffe and at the mouth of the Japaru. tiful has sepals and petals of a clear rose, with lips of a most beautiful crimson and throat of deep orange. The flowers are large and delicately fragrant, and bloom in January or February. Among other orchids collected (and the first that of this plant were found near Tauapassua, every one growing in an ants' nest.

Speaking of his collections, Mr. Morris says: "Besides the orchids I brought with menumerous twigs and branches which were covered with cauchy (a sediment deposited by orchids, did he but touch it, what a collector undergoes.'

New Method of Packing Fish Eggs for Shipment.

Under the supervision of Professor Baird, U. S. Fish Com-Within the space of ten months Mount Etna had five Mr. Fredrick Mather, of this city. Half the eggs were

him. The Indian said they climbed the tree, but this he

the Cordilleras and in the direction of the Rio Torondoy, versal Nozzle, the patent of Andrew J. Morse. The nozzle would be considered by the American small boy if, instead and its quality greatly interested those who examined it. It is of the same pattern as that used upon the fire boat Flan- of digging up flower-beds or turning over old boards, thus was ultimately sent to Caracas to be thoroughly examined ders, and this exhibition was given to demonstrate its value | losing much valuable time, he could fill his can of bait by and tested. The northern basis of the Cordilleras is not for street service, whether operated by steam engines, or by climbing a tree ? Mr. Morris adds that he has caught fish much known, and Mr. Plumacher reports that he is not a powerful pump in the basement of stores. The trial was ! with the fruit of the tucuma (Astrocaryum tucuma), but this

RECENT DECISIONS RELATING TO PATENTS. United States Circuit Court,-District of Maryland.

VENS VS. SAME. STEVENS, USE OF EMIGH, VS. SAME .--PATENT RAILWAY BRAKE.

Bond and Morris, Judges:

1. The question in controversy is, "What saving did the of this region may appear to be in the innumerable foun- trial was with a 1% inch nozzle, through a single line of defendant derive from the use of the Stevens brake for the tains and deposits of petroleum, bitumen and asphalt, such hose; the second with a 11/2 inch nozzle and a single line period covered by that patent above what it would have deriches cannot be compared with those contained in the im- of hose; the third with a 2 inch nozzle and three lines; and rived from the like use of the Hodge brake during that

2. The difficulties of proving the exact money value of

sits, which really form the greatest wealth of the State, have directing the torrents of water that came from the nozzle. profits to be decreed to the complainants in all three of these

4. On these sums the court does not allow interest.

United States Circuit Court.-District of Massachusetts.

ROOT et al. vs. LAMB.-SPIRAL TUBES.

Lowell, J.:

1. Where an invention relating to the method of forming spiral tubes was described in terms used in the art of making welded tubes, it not appearing that sheet metal tubes could be made in the manner described: Held, that the invention

2. In describing his invention a patentee may misuse words, but in seeking his meaning the ordinary signification of the words he uses must have weight.

3. A patentee's invention cannot be given a broad construction, so as to cover later inventions, when it appears from the state of the art that there was no opportunity for a great original discovery and the claim is properly limited to the specific improvement.

Bill dismissed.

Mexican Pyramids.

On his return from his tour of antiquarian research in Southern Mexico, M. Charnay reported the discovery of a ruined Toltec city in Tabasco, near the Gulf coast, a city which covers a wide area and must have been in its day a place of considerable importance. The long forgotten town is surrounded and dotted over with small hills, and the buildnected their sites by bridges. The largest of the pyramids is 500 feet in height and a second is fully 300. Nature had had more to do with these monuments than art, as the builders had merely shaped the hillocks into pyramidal form and afterward faced them with stone, and steps were also cut in missioner, a shipment of 40,000 eggs of the whinnish, or land the sides, paved with a mixture of cement and pebbles. locked salmon of Maine, was recently made to Germany, by From a careful study of the remains of this ancient city M. Charnay is inclined to believe that it was founded between

The Moquis.

attributes it to the existence of an immense opening, which placed over them, and the boxes, thus nearly hermetically In the history of the aboriginal races of this country little appeared upon the mountain at the time of the eruption of sealed, are packed in ice. There is no percolation of water is said regarding the Moquis, a branch of the Pueblos, living, May 26, 1879. He concludes that a very strong pressure upon the eggs in this mode of packing. But as the box de- where possibly they have lived for a thousand years, in a ing expedition, are built on the tops of four sandstone mesas, which are separated from each other about eight miles. They occupy the entire width of the mesas, and, standing immedi-

Diphtheria.

cal Review of his success in an epidemic of diphtheria by the use of iodine. He has treated 200 cases with but two deaths, low tree covered with bromelias and large tillandsias. while before adopting this method he lost one third of all "Those are not orchids," he said. "No matter, patron," his cases. The treatment is as follows: The patient is ordered tincture iodine in ten to twelve drop doses every hour, well reducing to ten drops every two, and finally every three Bread and starchy articles of diet are used in abundance.

is required for the formation of lava, and that a great tension tains and condenses all moisture arising from the trays, and rocky stronghold in a sandy desert of Arizona. This people of gas is indispensable in order to raise the lava to the sur- the supply of air is sufficient for a number of days, it is be- number about two thousand five hundred, and occupy six face of a mountain. It appears probable, therefore, that lieved that it will save a larger percentage of the eggs than villages, with houses built of stone cemented with sand and there will be no reason to fear any further eruption in the was possible under the old method, besides occupying some. clay. These villages, says Dr. Loew, of Wheeler's survey-

Climbing Trees for Fish Bait.

In his search for orchids in the forests along the Rio ately before the houses, one may look vertically down a depth Dr. Gauthier, of St. Paul, Minn., tells in the Chicage Medi- Negro, in Brazil, Mr. Ernest Morris was surprised to see his of three hundred feet. In many places the sides of the mesas native rowers run his cance ashore and proceed to climb $a \mid$ are terraced, being used as sheep corrals. In appearance the Moquis come rather nearer to the Caucasian than the rest of his race. These Indians are well clad. and the females esreplied the Indian; "we want iscal (bait)." Wondering at this pecially so. Indian corn is the principal food-the sheep Mr. Morris watched the boy as, hand over hand, with knife are raised for their wool rather than for the table. From the diluted with water, so long as the fever lasts, subsequently held between his teeth, he passed from limb to limb. Soon wool a good blanket is made. The seed corn is planted a large tillandsia, several feet square, fell to the ground, about one and a half feet from the surface, at which depth hours. Local applications are made use of at the same time. "Where is your bait?" said he. "Look," said the Indian, sufficient moisture is found to develop and sustain the plant These latter should be made by the physician at least twice who was cutting the leaves close at the base, where the ex- The Moquis have neither church nor any other place of a day. For internal use the decolorized tincture is used, plorer saw between the leaves a mass of worms resembling worship, and the Spanish Jesuits were unable to gain a foot-'our common ground worm. How they got there puzzled hold among them.

Engineers' Club, Philadelphia.

At a recent meeting Mr. C. W. Buchholz read an interestlate years, in the weight of the rolling stock of railroads, especially in the locomotive, in the concentration of enor- Fevre, C.E., president of the society, took the chair. Re- patient, lest the latter be disturbed. mous loads upon one pair of drivers. He described the viewing the principal structural differences of the bodies and bridge. He urged the great necessity of employing compeefficiency of trussed bridges with parallel chords and pin connections for spans under 150 feet long, under the present girders and riveted arched trusses as being stiffer and more ing and proportioning their floor systems.

Henry Baldwin, giving some personal experiences while weight. The manner in which wings produced what engaged in the construction of the work, and also describ- was practically a solid basis of support in the thin air raised | ing some experiments and observations recently made by the whole subject of flight. Major Humphreys, engineer, in charge of the sewers, showing their present condition.

Some topographical features of Memphis were described, showing that, although situated on a bluff, it does not overlook the river, but its surface descends rapidly to a small managing only 9 movements per second, or 540 per minute. stream of water in the interior, separating the business from the suburban and rural parts of the city. To avoid pollut- length had been proved by experiment, and this fact was ing this stream, intercepting sewers were placed on each hopeful for the future of flying machines, as there could be side. Their location, through private property for much of no doubt that comparatively slow movements would suffice their length, was described, showing how, by avoiding all for driving the long powerful wings required to elevate and angles and using curves of 100 feet or more radius, these propel flying machines. It was evident from what was seen mains were reduced, practically, to straight lines.

half full every day, thus keeping them constantly flushed. Hence the necessity for the entire, and not the partial, exclusion of rain water; for its admission, even from the roofs of the daily flushing of the sewers impossible.

nished by houses is not sufficient to half fill a six inch pipe, tanks are widely distant from each other, that their action is count impossible. It was a question of time, perseverance, operate would cause only local inconvenience, and have no the data for its solution werebeing slowly but surely accumupossible influence on the rest of the system.

The fact that the pipes are entirely clear has been established by passing through them metallic balls but little smaller than the sewers themselves. The velocity of flow in the mains, as determined by recent gaugings, was shown to be such that any substance introduced into any part of lating rabbits and guinea pigs with the saliva of a child which the system would be discharged into the sewer in the course of two or three hours, in fact, long before it would have time to stagnate or become foul; and this, together with the complete system of ventilation described, by which a burning liar, which could be cultivated, and then produced, when piece of paper is drawn into the sewer and not blown out, shows the complete success of the Memphis system of sewerage as a sanitary work.

Mr. Chas. G. Darrach read extracts from the reports of the chemical experts on the present condition of the water supplied to the citizens of Baltimore. This water is supplied from Lake Roland, and when drawn from the taps has such a disagreeable taste and odor as to be useless for domestic can be produced by the inoculation of the saliva of persons purposes. One of the experts found that there was present a volatile nitrogenous substance unknown to chemistry, made some inoculations with such saliva, but without any again, but chanced to open his huge mouth. This was my which he believes to have been the cause of the offensive, results. But since the case of hydrophobia was in a child, smell and taste. Whether this organic substance is injuri- M. Pasteur applied to M. Parrot for some saliva from chil ous to health or not he is unable to say, that being a ques- dren dying from diseases which are regarded as non-specific, tion for physicians. The other expert thought that, as the and received some from the bodies of three children who my largest sword. With it I gave him a gash in the throat water was taken from near the bottom of the reservoir (some had died the preceding day from broncho-pneumonia. In which made him wild with pain. After a while I got a 25 or 30 feet below the surface), the water needed air. Mr. rabbits inoculated with this saliva there was found precisely chance to make him fast to the boat with a line around his Darrach advanced the same theory, and in proof stated that the same organism as had been discovered in those which had tail. A man came to my assistance and we pounded him the surface water of Tumbling Run Dam in Schuylkill Co., when visited in 1875, was good, while that drawn from the phobia. He thinks it certain, therefore, that this organism as it was hard work to tow a dead porpoise. He doesn't very disagreeable.

Prospects of Aerial Navígation.

An interesting and suggestive paper by Dr. Bell Pettigrew Notes on the sewerage of Memphis were read by Mr. Wm. its levity; the flying creature was efficient because of its Rundschau, January, 1881.

After describing minutely the structure and action of natural wings, he said, with regard to the speed at which they were driven, that the common housefly moved its wings 330 times per second, or 19,800 times per minute, the butterfly That the wing was driven more slowly in proportion to its The Memphis sewers being intended to carry off only weight and power of body and size and speed of wing. It household waste, the adjustment of their size was shown to was satisfactory to find that a solution of the difficult and be so proportioned that the nearly uniform supply of water, important problem of artificial flight was being attempted by afforded a sufficient midday flow to fill the sewers at least men of the highest scientific attainments, and that aeronau-Austria, and this and other countries. Classifying the various machines by which aerial locomotion had been attempted, dwellings, would render this adjustment of size, and hence he pointed out the causes of failure and the means by which partial success had in some cases been obtained. One of the The entire system is thus shown to be self-cleaning, except main difficulties in the way of constructors of machines for motor, and in the use of compressed air for this purpose he and here the flush tank is required to discharge once a day saw a probable means of doing without the heavy steam or water enough for this purpose. The operation of flushing electric engine. Aerial navigation might well appear Utopian being required only at the dead ends, it will be seen that the to the mass of mankind. It was not, however, on that acentirely independent, and that the failure of any of them to and ingenuity, simply a very complex physical problem, and lated.

Pasteur's New Disease.

In the Lancet for February 5, we called attention to the remarkable effects which M. Pasteur had obtained by inocuhad died from hydrophobia. The animals. it will be remembered, died thirty-six hours after inoculation, and in their blood was found a bacterial organism, which was quite pecuinoculated into other animals, symptoms identical with those observed in the others. M. Pasteur did not assert that this was the special microbic organism of rabies, but he considered that his experiments and the microscopical characters of the organism warranted the assertion that the disease was not septicæmia, but a malady altogether new to experimental pathology. In order to ascertain whether a similar affection who have died from other common diseases, M. Pasteur has

strict isolation of the patients. They are to be separated from their friends, and to be kept from all possibility of ing paper, calling attention to the rapid increase, during F.R.S., was lately read at a meeting of the Balloon Society sensory impressions. Even the physician or attendant of Great Britain in the Royal Aquarium. Mr. W. H. Le should exercise great care in his intercourse with the

Four cases have been successfully treated by the author. effect of this heavy weight, when hurled at the rate of 60 limbs by which animals were fitted to move on land, through In addition to complete and prolonged isolation, several miles per hour, or 88 feet per second, upon a light iron water, or in air, Dr. Pettigrew pointed out that the analogy drugs were employed. Thus, in the first case, in which which obtained between water and the air as supporting tetanus developed after an amputation of the thigh, chlorotent engineers to design and build such bridges, and of media had strangely and gravely complicated the problem form was applied externally by the use of the atomizer. holding them to a rigid responsibility. He doubted the of flight, the idea uppermost in most minds being that a flying Nearly three ounces were used daily. A gentle sleep was creature must float upon the air as a ship floats upon the also maintained by the exhibition of chloral hydrate and water. It was this idea that led to the discovery of the bal-, morphine. The cure was complete in two weeks. In the condition of large railroads using modern locomotives and loon, though the balloon could not in any sense at present be second case, that of a youth twenty years old, the same plan running at a high rate of speed. He suggested solid plate regarded as a flying machine. Until endowed with the of treatment was adopted. But one-sixtieth of a grain of means of moving from one place to another independently of atropine was given in conjunction with the chloral hydrate. permanent. In conclusion, he drew especial attention to the the wind, as he hoped it would soon be by the ingenuity of A cure took place in twenty days. In the third and fourth great care the modern locomotive imposes upon the engi- a member of the society, a gallant officer, whose plan had cases the external use of chloroform was not enforced, and neer in designing the details of all bridges and in determin- not yet been made public, the balloon would remain merely the last case was treated by bromide of potassium and isolaa lifting apparatus. The balloon was inefficient because of tion. This one recovered after forty days.-Medic. chir.

Strength of Bronzes.

In a paper lately read before the American Society of Civil Engineers, Professor R. H. Thurston describes a new bronze alloy of maximum strength. The properties of this alloy were ascertained by Professor Thurston in the course of his examination in the mechanical laboratory of the Stevens Institute of Technology of a series of 36 alloys of copper, tin, and zinc, in which the proportions of the copper were varied from 10 to 80 per cent; of the tin, from 10 to 80 per cent; and of the zinc, from 10 to 70 per cent. The results of these experiments pointed to an alloy of the proportions of copper, 55, zinc, 43, and tin, 2, as likely to be that possessing maximum strength, and on Professor Thursin nature that flight was to a large extent a question of ton making the alloy he found it to possess a good color, to be close grained, and susceptible of high polish. It was also found to have immense strength, considerable hardness, and moderate ductility, while it could also be forged if carefully heated. For purposes demanding toughness as well as tical societies had of late years been established in France, strength, Professor Thurston found, however, an alloy with less tin to be preferable, and he gives the proportions of copper, 55, tin, 0.5, and zinc, 44.5, as affording the best results. This alloy, he states, has a tensile strength of 68,900 lb. per square inch of original area, and 92,136 lb. per square inch of fractured area, while it elongated from 47 to the upper end of the smaller branches where the water fur- aerial transit was the want of a sufficiently powerful and light 51 per cent (length of test sample not stated), and reduced to 0.69 to 0.71 of its original diameter before fracture. He also states that the shavings produced by the action of the turning tool on this alloy curled closely, and were tough and strong like those of good iron. Professor Thurston also refers to an alloy discovered several years ago by Mr. J. A. Tobin, but which appears not to be generally known. This alloy, which consists of copper, 58.22, tin, 2.3, and zinc, 39.48, had, when cast, a tensile strength of 66,500 lb. per square inch of original section, while when rolled hot its tenacity rose to 79,000 lb. per square inch, and when moderately and carefully rolled cold, to 104,000 lb. per square inch. It could also be bent double either hot or cold, and was found to make excellent bolts and nuts, while it could be forged at a low red heat.

Fight with a Porpoise.

Mr. R. R. Tanguey, the veteran Rochester sportsman, recently had a fight with a porpoise. In a letter from St. John's River, Florida, he says:

``I will write you of my last struggle with a large porpoise.I was rowing up in what we call the 'witch-tide,' when this monster came running between me and the bluff. I struck him on the head with my oar. He gave a sudden dart and went ashore like Jersey lightning, and I went almost as quickly after him. Then he rushed for the deep water chance, and I rammed the ore in his mouth and down his throat. Then came a tussle—he pulled and I pried. After a long struggle he quieted down; I ran for the boat and got been inoculated with the saliva from the case of hydro. With clubs until he was dead. We waited for the next tide.

Disinfection of Ships,

In devising a system for the thorough disinfection of ves- when inoculated in very small doses. It is a fact of very sels on board of which cases of smallpox had occurred, the great importance in the etiology of diseases which may be Austrian Government, through its medical experts, resorted ascribed to microscopic organisms.-Lancet.

to the following method: Sulphur to the extent of twelve grains per cubic meter of the space to be disinfected was first burned in an earthenware vessel or basin, placed in the liters of water.

bottom was very offensive to both taste and smell. The may often be found, and that it is one of those which have float when dead. By hard work we got him ashore and to water taken from the Fairmount pool during winter, when their habitat in the commencement of the alimentary tract. camp. Then we measured him. He was nine feet ten inches the ice remains for any unusual length of time, becomes Hence, as he points out, it is not in any way connected with long, two feet three inches in diameter, and would probably rabies, but it is a surprising fact there should exist in the have weighed more than six hundred pounds. saliva, at least of children, a special organism which is capable of causing so rapidly the death of rabbits and dogs, even

**** The Treatment of Tetanus.

.... Foreign Bodies in the Eye.

Dr. Thos. R. Pooley (Archives Ophthalmology) reports some interesting experiments with the magnetic needle for detect-

ing foreign substances in the eye. He concludes: 1. The presence of a steel or foreign body in the eye, when of considerable size, and situated near the surface, may be de-

Dr. Ria believes that tetanus consists essentially of an termined by testing for it with a suspended magnet. 2. The center of a mass of sand to prevent all risk of fire; every exaggerated reflex irritability of the spinal cord, which may presence and position of such a body may most surely be article of clothing, all the linen, etc., were hung across the be indifferently caused by traumatisms, toxic influences, or made out by rendering it a magnet by induction, and then cabin, the latter being then hermetically closed for three so called rheumatic action. Since the motor tracts of the testing for it by a suspended magnet. 3. The probable hours, and afterward exposed to the strongest possible cord respond in a morbidly exaggerated manner to all sensi- depth of the inclosed foreign body may be inferred by the draughts of. air for twelve hours; finally, the walls, floor, tive impressions, the main object of treatment will have to intensity of the action of the needle near the surface. 4. ceiling, etc., were washed with one kilogramme of lime, or be to lessen sensory excitation; for, if this be accomplished, Any change from the primary position of the foreign body one-half a kilogramme of chloride of zinc, to every hundred the cord will gain rest, and thus a return to its normal con may be ascertained by carefully noting the changes indidition will be made possible. Ria, therefore, emphasizes cated by the deflection of the needle.