May Meetings.

During the first week in May the American Medical Association, the National Board of Health, and the Sanitary Council of the Mississippi Valley, were in session at Atlanta, Ga. Their meetings were largely attended. The epidemic of yellow fever last year, and its possible outbreak during the coming summer, naturally gave great prominence to questions relating to quarantine methods and general sanitation. The Medical Association chose New York as the STOOL OF INLAID WOOD AND EMBROIDERED CLOTH. place of its next meeting in June, 1880. Dr. Lewis A. Sayre, of this city, was elected president. The National Board of J. Androuet du Cerceau, who lived from 1515 to 1558. It Health will meet again in Nashville, Tenn., next October. | contains grotesque masks and other fanciful decorations. | farming on their own lands, or engaged in some other oc-

The annual session of the American Institute of Mining Engineers was begun in Pittsburg, Pa., May-13. Over one hundred prominent metallurgists were present at the first session. The closing session was set down for Friday, May 16.

The sixth annual convention of the National Millers' Association began in Chicago, May 13, six hundred members present. In his annual address, the president, George Bain, proposed that the association be organized as a corporation on a legal basis for the purpose of carrying on suits regarding patents; that an attorney be appointed to look to the interests of the association as against the encroachments of patentees; that the success attending their efforts against the impositions of the Cochrane patent should encourage them to wage uncompromising warfare against the Denchfield patentees, and that a better system and practice of grading and inspection should be adopted.

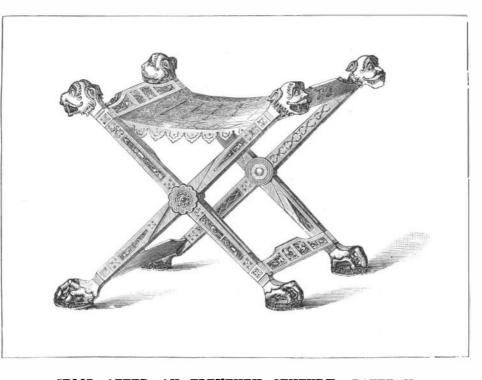
The annual meeting of the Silk Association of America was held in this city May 13. The secretary reported that while there had been no great failures in the silk indus-

instance of remarkable prosperity. The prices of silk have steadily declined during the year from 20 to 30 per cent, and Renaissance period. in February fell lower than at any time during 30 years.

More silk was consumed in this country last year than in preceding years, the imports being 38 per cent over those of 1877, and there has been a large increase in the receipt of raw silk from Japan and China. European raw silks have been cheaper than the Asiatic product. With the decline in the value of the raw material, manufactured goods have become cheaper. The lowering of prices and the ab-

to make costly experiments and improvements during the year. The general tendency in woven goods has been toward work of the higher grade. The mills have been fully employed, but great expense has been incurred in the improvement and alteration of machinerv. A decided advance has been attained in the production of dress silks, and more of them are made, and of a higher class, than ever before. If they are kept up to the standard there is every prospect of their displacing the loaded silks of Europe in our market by supplying a better and cheaper article. Nearly all the weaving mills are producing broad goods. The number of paying members of the association has been doubled during the year, and includes among its members nearly every silk manufacturer in the country. The following officers were chosen for the coming year: President, Frank W. Cheney, Hartford, Conn.; Vice-Presidents, A. B. Strange, New York, William Ryle, New York, Robert HaRoger wagered that between sunrise and sunset a coat could be made for him out of wool from the back of a sheep Accordingly the sheep was sheared at dawn, the wool was dressed and dyed, woven into cloth, cut and made to fit before nightfall. An Austrian clothier has done all this in eleven hours, so that he really has outstripped the Berkshire baronet, who allowed himself from 4 A.M. to 9 P.M.

The design shown in the accompanying engraving is by



STOOL AFTER AN ELEVENTH CENTURY PATTERN.

try during the year, there had been, on the other hand, no Many choice works of this artist are known, his refined seems, would be glad to find some hundreds of this pretaste having a large share in the art embellishments of the sumed multitude. They have failed, although they required

> BACON, in his instruction, tells us that the scientific student ought not to be as the ant, that gathers merely, nor as the spider, that spins from its own bowels; but rather as the bees, that both gathers and produces.

SPECIMENS OF TURKISH POTTERY.

The specimens of Turkish pottery shown in the engrav-



Some Aspects of Labor.

Reports coming in from all parts of the country indicate a greater demand for skilled labor than has existed for several years. And the redistribution of labor during the years of depression threatens in some instances to work no little temporary inconvenience to reviving industries. From New England, for example, there comes the curious report that several cotton mills find it impossible to go on for lack of hands. A large number of the more thrifty and forehanded cotton operatives left the East for the West when work failed in the mills, and now cannot be recalled, having taken up

cupation. This readiness of American workmen to leave one calling for another when occasion demands is one of the most encouraging features of our industrial classes, since it prevents any long continued distress among any class of operatives, when their special business fails, and equally prevents any protracted lack of labor in any field when a demand for it arises. The New England cotton mills will not have to wait long for hands if they can offer the average inducements in the way of wages, and if they cannot do that it is evident that there is no urgent demand for their products, in which case the world will not suffer from their suspension.

The demand for unskilled labor, even in this city where the glut of day laborers was supposed to be greatest not long since, is manifestly quite up to the supply. On this score a city daily remarks in a recent issue:

"It is commonly supposed that there are thousands of destitute and unemployed working men in New York who are anxious to get work at any wages which will support them. The steamship companies, it

only unskilled labor and have offered at least the means of daily subsistence in return for it. How much of the apparent and undeniable destitution in this city is a real consequence of a real lack of employment, therefore, and how much proceeds from the habit of promiscuous almsgiving without inquiry and from the growth of a positively vagrant pauper class in this country, are questions worth looking into.

Touching the same general topic a well-informed Philasence of tariff excitements have also enabled manufacturers ing are of modern manufacture, but in strict resemblance delphia paper says: "The iron and steel trade was one of the

very first to succumb to the pressure of the times, but even that is now exhibiting more activity that at any previous period since 1873; other trades are doing even better, and the number of mills and works which remain shut down for sheer want of remunerative business are exceedingly few. That any should stop, however, for want of hands, is most remarkable, in view of some of the speeches that are occasionally made in Congress and out of it by the self-styled labor reformers. According to the statements of these gentlemen, there are at the present time in the neighborhood of a million industrious skilled workingmen vainly seeking employment; but we are afraid that after deducting, say nine tenths of the number (as imaginary?) the other tenth is largely made up of the vicious tramps who vagabondize through the country to the terror of the agricultural population, and who would not work if they were ever so well paid for it. If work is wanted some of them can certainly

nil, Paterson, N. J.; Treasurer, S. W Clapp, New York; Secretary, William C. Wyckoff, New York.

American Mutton.

We must be prepared to hear shortly that American sheep are subject to no end of hideous diseases, and that the use of American mutton is hazardous

ously threatened. Something will have to be done; and we shall not be surprised if an epidemic of tape-worms, or something equally distressing, is soon reported among eaters of American mutton. It is not possible that American sheep can be wholly exempt from the numerous maladies to which all flesh is heir-when exported!

Quick Work with Wool,

The exploit of the English baronet, Sir Roger Throckmorton, has been bettered by an Austrian clothier.

TURKISH POTTERY.

in the extreme. The exportation of sheep to England in- to the oldest ware produced at Gallipoli, near Constanti- remains to be seen. We are strongly inclined to believe that creases rapidly, and the profits of English breeders are seri- nople. It is green and gold, and is almost identical with the good sense of the vast majority of our industrial classes forms of pottery in common use in Persia and India.

----The Oldest Mine Map.

Dr. Gurlt, a German metallurgist, who has devoted much attention to the study of the history of mining and metallurgy, exhibited recently, before a German society, a copy of what appears to be the oldest map of a mine known. It is the plan of an Egyptian gold mine from the time of King Seti I., or about 1,400 B. C. The original, drawn on papy-Sir rus, is at the museum of Turin, Italy.

find it among the mills of New England, which so greatly need operatives as to stop for want of them."

Existing and widely threatened strikes for higher wages still further testify to the increased demand for labor. How far these strikes will retard reviving industry and delay the better times coming for American labor

will forbid their making haste thus to kill the industrial goose that is beginning to lay golden eggs, at the dictation of a misguided few who are determined to rule or ruin. Strikes are unprofitable at all times; at this stage of industrial revival they cannot be other than suicidal.

A SYSTEM of pneumatic tubes took the place of telegraph lines in Paris on May 1, for the transmission of messages from one part of the city to another. The charge is 50 centimes, or 10 cents, for open, and 75 centimes for sealed messages.

Girdling the Grape Vine.

on the fruit: it causes it to grow much larger, to ripen that it is, for the design of the government of the Celestial sooner, and makes it of better flavor. Girdling consists in Empire has been heard of in Lancashire, and negotiations taking a rim of bark about one fourth or one sixth of an have been opened here having the above object in view. inch wide from the trunk or branches of the vine. Some Here, then, we have the prospect of another competitor of a recommend taking this rim of bark from the main stem, !formidable character springing up to confront us. Doubtothers from the side canes. As many may not understand lessly, also, the new industry will be founded, cherished, the operation or the effect it has upon the vine, it may save and developed under a system of protection as rigid and unthe life of many a vine if we examine and see how it grows. compromising as the government may deem it safe to inau-A vine does not grow, as may appear at first sight, from the gurate. The result of this experiment, presuming that it bottom upward, but from the top downward. The roots will be made, can hardly be predicted. We shall have to take from the soil what moisture the plant needs; also the wait patiently, and observe if the ingrained conservatism of mineral matter. This food cannot be used by the plant Chinese nature will permit at home such a startling innovaunless there is water in the soil to hold it in solution, as it tion upon the methods of spinning and manufacturing, immust be in a liquid form to be taken up by the roots. This menorially old, that are in vogue in the country, as would crude or undigested food or sap is carried to the leaves, not be the planting of cotton spinning and weaving establishthrough the bark, but through the entire wood of the vine. ments upon the English system. Should this, however, take When it reaches the leaves, it comes in contact with the car- place, it will need no prevision to safely affirm that the inbon absorbed from the atmosphere by the leaves; here it is dustry of the West in another thirty or forty years will have digested, and is now ready to be used by the vine in making to stand face to face to a competitor whose formidable charnew growth in what is called the cambium region, and is acter will dwarf all previous ones into insignificance. The deposited in the form of cells just beneath the bark, so that personal qualities of John Chinaman, as shown abroad, all growth is made from the downward flowing sap, and not where he has latterly begun to appear more frequently, refrom the upward.

is made, so that the sap as it descends cannot pass over this ing the details of any new occupation to which he may be gap, and all growth must take place above where the bark put. Should he, therefore, in his own home take kindly to has been removed. If the main trunk is girdled, that por- western methods of labor, the industrial and commercial tion below the girdle must go without receiving any support states of the world would speedily be revolutionized. This from the rest of the vine until this wound can be healed is a possibility of the future. over and complete circulation renewed. All this time the roots have furnished crude sap for the part of the vine above the girdle, and have received nothing in return. This cannot help weakening the roots, and if followed up it must entirely kill the vine. This gap may heal over (as it probably will if not done too late), when the circulation will be restored once more; but there has been a strain on the roots, and they must be somewhat exhausted. If only girdled once the vine may not be permanently injured: but if followed up it must be weakened, and the moment its vital forces begin to lag will disease of some form step in and hasten the work of destruction. If instead of girdling the main trunk a side shoot is taken (taking care to leave some untouched), the injury may not be enough to be felt by the roots, and the vine will not be injured to any extent. After a vine is girdled, the crude sap is taken up the same as before and is digested by the leaves. This prepared sap descends as far as the place where the rim of bark has been removed, and can go no farther. The result is, the branch is crowded with food that must be made use of, the fruit has more than the usual amount of nourishment supplied it, which causes it to develop faster, grow larger, and makes for use as setting in breastpins, earrings, and other orna it of better flavor. If a single branch be tried, the effect of ments. It is more especially to these selected and polished girdling can be distinctly seen; the cane girdled will show ripe fruit, while that on the remainder of the vine will hardly have begun coloring. I think the best results from girdling will be obtained if done in the following manner: As soon as the fruit is half grown, take a rim of bark from the side canes (leaving part ungirdled to supply nourishment to the roots, and to keep the vine in a healthy condition) near the main trunk. The rim of bark should not be over one fourth of an inch wide. This will make the fruit grow nearly as fast again as on canes that have not been girdled. The vine at this season is growing very vigorously, and will heal over the wound made by taking away this rim of bark in a short time. As soon as the natural circulation is restored, the fruit will seem to have stopped growing, and that on the rest of the vine will partly catch up with it; but if as soon as the circulation is restored another break is made by taking away another rim of bark, just above where the first barium. The nickel is afterward precipitated as oxide by one was taken, the fruit will ripen fully two or three weeks; means of chloride of lime and lime water. The metal ob earlier than that on the rest of the vine. Last season I tried this method on a Concord vine. The first girdling caused the fruit to increase in size nearly as fast again as it did on the canes that had not been girdled. The wound healed over in a few weeks, and the berries seemed to come to a stand still. I removed another rim of bark just above where the first one was taken, and it was astonishing how quickly the berries began coloring. They were larger than those on canes not girdled, of better flavor, and ripened fully fifteen days sooner. If any one will take the pains to grow new canes each year to girdle the next, and cut away the canes girdled the year before as soon as they have produced one crop of and would even recommend it, as the fruit will ripen so much earlier that it will be in no danger of injury from early these, investigations relating especially to chloral. frosts, which in this latitude often destroy the crop. But do not girdle the main trunk, only the side branches, and ened, and in a short time will be ruined.-J. W. C., in Scientific Farmer.

to be constructed and worked on the European principle." The girdling of a grape vine has a very marked influence "Is this statement correct?" it has been asked. We know veal the fact that he is patient, docile, sober, industrious, If a vine is girdled by taking away a rim of bark, a break and possesses great power of adapting himself to and master-

Noumeite.

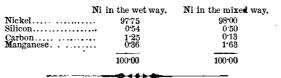
At the recent World's Fair in Paris, noumeite-a massive form of garnierite or hydrated silicate of nickel and magnesia was exhibited in large quantities.

In a recent number of Dingler's Journal Prof. Rudolph van Wagner states that the largest nickel works in France make all their nickel, its alloys, and the salts used for nickel plating, from this New Caledonia ore alone. The ore, as it reaches the factories, has the following average composi-

Oxide of :	iron	 . 	 ••	 	 •••			••	 ••	••	••	• •		•••
Magnesia		 	 	 	 	·	 		 ÷.,					
Silica		 	 		 				 				١.	
Water														

It occurs in serpentine, and possesses a beautiful green color, similar to, but not easily mistaken for, malachite. Its color, together with its variegated and clouded appearance has led to selecting the finest specimens and polishing them specimens that the name of noumeite is applied. Being massive and dense it cannot equal the fibrous malachite with its beautiful satin luster, but may yet find extensive use along with lapis lazuli in mosaics and the like.

The methods employed in extracting the nickel from the New Caledonian ores are quite different from those in use for other nickel ores, and much simpler. In the so-called mixed process the ore is treated with hydrochloric acid and the solution precipitated by oxalic acid. The nickel being now combined with an organic acid is readily reduced by simply heating it in a crucible with lime and charcoal to a high temperature. The metal thus obtained contains 99.5 per cent of nickel. In the other method, known as the wet process, the ores are likewise treated with hydrochloric acid, the iron and alumina precipitated with carbonate of line, and every trace of sulphuric acid removed with chloride of tained by reducing this oxide is of excellent quality, and can be beaten out under the hammer, which is not the case with either the English granular or the German cubical nickel. Riche's analysis gave the following results:



fatal dose, and even a quantity half as much greater, can be rendered harmless, but twice the fatal dose cannot be counteracted, and is still fatal. Calabrin is counteracted by chloral hydrate in about the same degree as codeia. The symptoms produced in rabbits by poisoning with baryta are not materially altered by the action of chloral, which does not appear to prolong life. So, also, with carbolic acid; the spasms produced by it are not arrested by chloral, and the minimum dose fatal to rabbits still produces death. The combination of a fatal dose of carbolic acid with a non-fatal dose of chloral hydrate causes in rabbits a remarkable fall of temperature, which is not produced by the action of either of these alone. As a rule, when chloral antagonizes the action of these cerebral poisons, the respiration sinks in frequency much more than in the case of the analogous action of chloral on the tetanizing poison. The depression of temperature caused by the chloral is also independent of any peripheral loss of heat. The elevation of temperature due to division of the spinal cord is hindered by chloral hydrate.

ASA PACKER.

Judge Asa Packer, President of the Lehigh Valley Railroad Company and founder of the Lehigh University, died at Philadelphia Saturday, May 17. He was born in New London county, Conn., December 29, 1805, and at the age of seventeen, with no inheritance save a sound frame, an earnest purpose, and sterling character, set out to make his way in the world. He journeyed on foot to Susquehanna county, Pa., where he apprenticed himself to a carpenter. When master of his trade he married, and spent a number of years farming a piece of land owned by his wife's father. Tiring of that occupation, the young couple removed to Mauch Chunk, where Mr. Parker took command of a canal boat, and engaged in the business of transporting coal. In a couple of years he was able to build himself a boat and to enter into a profitable partnership with his brother. In 1840-43, he and his brother were building boats at Pottsville to carry coals to New York by the Schuylkill navigation system. Later, Mr. Parker took up the double enterprise of mining as well as transporting coal.

In 1852 he began the gigantic undertaking of building the Lehigh Valley Railroad, which was finished in 1855, and, with its branches, opened up the entire anthracite region of Pennsylvania. As Mr. Packer had foreseen, the railway at once gave an enormous impetus to the coal mining business, and developed other interests and industries proportionally, adding greatly to the prosperity and wealth of the State.

While carrying on these vast material undertakings Mr. Packer found time to carry on constantly the studies which he began in the evenings while learning his trade, and to render excellent service to his State and the nation in judicial and legislative capacity. His judicial title was acquired by service as county judge. In 1844 he was elected to the State Legislature, and in 1852 was sent to Congress, where he served two terms.

In his business career Mr. Packer acquired great wealth and used it most creditably. He gave munificently and steadily to charitable, religious, and educational objects, crowning his life-work by the establishment and liberal endowment of the Lehigh University, an institution designed with special reference to the needs of young men preparing to undertake the great mining, manufacturing, and other material interests of the country. In its course of studies the chief places are assigned to civil, mining, and mechanical engineering and other departments of practical and industrial science. To the endowment of this institution Mr. Packer gave in all upwards of \$2,000,000.

Mr. Packer's personal life was marked by exceptional gentleness, kindliness, simplicity, and sincerity. He made many friends and retained them to the end. His entire career exemplified not only the highest type of success in personal and practical affairs, but paid the highest tribute to the institutions under which he lived, which made it possible for one, without wealth or family influence to begin with, to gain great wealth by honorable means, to benefit his age and country, and to leave behind him monuments that must make his life grandly productive through many generations.

Some years ago, at a meeting of eminent Pennsylvanians, Colonel J. W. Forney pronounced an eloquent tribute to Mr. Packer's life and character, worthy of recalling at this

Cotton Mills for China,

Chloral a Poison Antidote.

time. In it he said:

According to the Lancet, Professor Huseman, of Göttin-"Here is a character for youth and manhood to study. fruit, I see no reason why girdling should not be practiced, gen, has been engaged in a long series of observations on Here is a lesson to the one to move on in the path of improvement, and a stimulant to the other never to despair in the antagonistic and antidotal actions of drugs, and, among the darkest hour of disaster and misfortune. We pick out Chloral hydrate is known to act as an antidote to strych- Asa Packer as the miner picks out a piece of coal to show nine, lessening the spasm, and even preventing death. It the value of the precious deposit from which it is taken; we grow new canes each year to girdle the next. If instead of has a similar action in the case of the mixture of strychnine pick him out to show what can be won by personal honesty, this the main trunk is girdled, the vine will become weak- bases sold under the name of brucin, and also against the industry, and kindness to men; by courage in the midst of opium alkaloid, thebaia, which simultaneously tetanizes and bad luck, by confidence in the midst of gloomy prophecy, lessens sensibility. The spasms produced by chloride of by modesty in prosperity, and by princely generosity when ammonium diminish under the employment of non-fatal fortune comes with both hands full to realize a just ambidoses of chloral lydrate, and can indeed be completely tion. Mr. Packer's whole career exemplifies the truth that The Berlin correspondent of the London Morning Post re- stopped. Nevertheless death occurs, probably from the in the United States there is no distinction to which any cently made the following statement in a communication to paralyzing effect of both substances on the respiratory cen- young man may not aspire, and with energy, diligence, inthat journal: "The Chinese government has purchased ter. The antidotal effect of chloral on the action of the telligence, and virtue attain. When he set out from Mystic, machinery and engaged experienced engineers and spinners poisons which cause convulsions by their action on the Conn., to make the journey to Pennsylvania on foot it is in Germany to go out to China and establish mills there. brain, is not the same for all these substances. The quan- not probable that his entire worldly possessions amounted The government hopes by this means to make its country tity of the poison which can be counteracted by the anti- to \$20. These possessions are estimated at \$20,000,000, all independent of Russian and English manufacturers, and to dote appears to be considerably greater in the case of picro- of which has been accumulated, so far as known, without supply the home market with home produce. The mills are toxin than in the case of codeia. Of the latter, indeed, the wronging a single individual."