locality for sapphiecs in the United States, how. ever, is in the gravel diztricts near Helena, Mon., and Santa Fe, N. M. Se:o they oceur in the sand, associated with periodol and pyrope gar. net. No regular searching for them is carried on. They are found with the associated gems on ant hills, which abound in that disirict.Piltsburgh Dispulch.

## About Pins.

A statistician has recently made an interest. lug calculation of the guautity of pins made cach day. The manufactories of liimingham hold the first rank in this industry, and produce doily about $37,000,000$; other manufactories in Englind produce about 17,000,000, giving a daily production of $50,000,000$ of pins for that comitry alone. In Fance, the works of L'Aigle, of Bugle, and of Pacis produce 20,000,006; w bile those of Holland, Germany, aud other countries produce about $10,000,000$; so that we may estimate very approximately at $80,000,000$ the number of pins manufactured every duy, giving $29,200,000,000$ of pins manufactured in a year. This quaniity represents a value of $11,500,000$ fruncs. Notwithstanding this enormons production, and inough pins are never worn out and rarely broken, one often hears the inquiry after a pin, and it is possible that pins can only disappear from circulation by loss. We are led to suppose that $50,000,000$ of pins are lost laily. lius have long been one of the curious examples of results got by division of labor. Each pin passes through the hands of fourteen workmen, and cach worlsman contributes daily to the mamufacture of 100,000 pins. Machines have now largely replaced the manual labor: The net cost of $a$ single pin varies from four to six ten-thousandtins of a cent.-The Commercinl Bulletin.

## Why Manofacturess Pail.

The question is often wsken, "Why do so many manufacturing estalilishments fail?" Ine answer may be very readily given. It is this: A want of practical kvowledge of the business by those who bave the money invested. A few men who have some moncy to invest look around and arive at the conclusion that the manufacture of a certain article is a very remunerative husiness. They fumish the money; buy machine:y and material, employ superintencients and foremen, and go to work. Aiter a year oi so they find their money gone and the firm in debt, and they worder why they did not succeed, when not one of those interested mose hadd the slightest practica! knowledge of the work in hand. When they passed througb the shops they could not tell whether or not the workmen were doing theiz duty, whether the machines wese in order or adapted to the kind of work they sequired, or whether there was any unnecessary waste of matecial, or any superluous expense. If they saw the machiscry in motion they took it for granted that everything was going on right, and they were sure of making a good profit, when at the same time they were artually losing money by little leaks of various kinds.

To be successful, cach firm shoved have at least one practical man who has a thorough
linowledge ot the details of tho business: ono who cun, if necessary, lako the plaze of any superintendent or fureman or workman in the establishment, and who derotes his entite time to watching the details. With such an arrangement success is ceriain.-American In. entor.

## The Chingse and Gunpowder.

Dr. Macgowen, in a paper read at a recent session, of the Royal Ariatic Society, atitms the claims of the Chinese to be originators of gunpowder and fircaims. This claim was examined in an elabocute yapers years ago by the late Mr: Mayers, who decided in the negative. Or. Macgowan admits that gampowder as no:s used is a European discovery. Anterior to its gronulation by Schwartz it was a crude compound, of lits'e use in p:opalling missiles. This says the writer; is the article firsjused in China. The inrendiary materials stated by a Greck bistorian to have been employed ly the Hindus agaiust Alexauder's army are stated to have been merely the naphious or petroleum mixtures of the ancient J3oreans, and in the early times used by the Chinese. The stiakpots so much used by the Chinese pirates is, it appears, a Cambodian iavention. Dr. Macgown states also, that as early as the twelfth or thirteenth century the Chinese attempied submarine warfare, contriving rude torpedoes for that purpose. In the year 1000 an inventor exhibited to the then Enperor of China "a fire-gun and a fire-bomb." He says that while the Chinese discovered the explosive natu:e of nitre, sulphur, and charcoal in combination, they wete lagorards in its application, from imability to perfect its manufacture, so, in the use of fi:c. arms failing to prosecute experiment, they are found behind in the matter of scientific gunnery.

## Recent Legal Decisions.

Bond-Validity-Clemical Mistakf.-In the case of Warner ve. Rocher, accided by Judge Gresham in the United States Citcait Court, at Chicago, the figures and words "5000 and - cents in lawful currency," were held good, notwithstanding the clerical mistake of omitting the $\$$ mark. Judge Gresha.n eaid that to hold the bond void for such an omission would be too technical for justice.
Measure of Damages-Injerix to Goods. - Where goods are injured while in trausit tise measure ot darnages is the reasonable market value of the goods at the point of destiuation at the date at whice they should have arrived there according to the carrier's undertaking, less wlat they we.e worth at the date when they did arrive in their damaged condition. So held lyy the St. Louis Court of Apperls in the case oi Heil vs. The St. Louis, Iron Moun. thin, \& Southern Railroad Company, decided January 20.

Fusudelefit Converince-Relatiossimp. -In the cese of Condill vs. Gocble, decided by the Kentucky Court of $A$ ipeals on the 20th ult. certain conveyances from a mother to her daughter and son-iu-law wero held to be fraudu'ent, the grantor being indebted at the tine in
a sum sufficient to swallow up her catate, and the relations of the parties being such that the giantees, who failed to explain satisfactorily how the recited consideration was paid, must have known: of the financial embarrasment of the grantor and of the fraudulent design.
Insorance Podicy - Inchrased Risk Waiver. - In an action on a policy of insurs.nce the act of the insurer who has knowledge of the iucrease of risk by a change of use of the insured premises withous objecting to the same or canceling tho policy, will bo construed as a waiver of his right of forfeiture of the contract by such increase of risk. So held by the Supreme Court of Louisiana in the cabe of Storey vs. The Hopo Insurance Company. The court held that parol testimouy was admissible to such waiver, although the policy contained a clanse requiring the agrecment of the insurer to be indorsed on the policy, and sain that if the insurer, after knowledge of the increase of risk, continued to ieccive premiuns, he would be held to have waived the forfeiture.
Fraudulent Conveyance - Note and Mortasaz. - Where a note and mortgage were eycuted for bu amount in excess of the actual indebtedness existing from the mortgager to the mortgagee given in good faith to secure an actual'indebteduess, with the understanding thot unon the execution of the new note all the cicdits that wero upon the old note should be placed upon the new note, and where such understanding was carried out by the mostgagee, and in the overstatement of the amount secured there was no intent of either party to hinder, delay, or defraud the mortgager's eledi. tors, the Supreme Court of Kansas beld (Hughes vs. Sluill) that such mortgage was not fraidulent in toto, becanse uyon its face it secured an amcunt of indebtedness in excess of that actually existing from the moctgager to the mort. gagee.
Sudschirtion - Licomplete Agreement. A subscription in these words, "We, the un dersigued, leceby subscribs for the amount of stock opposite our names, and agice to pay tho same in four quarterly insialments, viz. : Feb. ruary 15, April 15, Junc 15, anc: August 15, for the purpose of forming a company to erect an academy of music," was held by the Sn preme Court of Georgia to le, on iti face, an incomplete ugiecment, as being entirely silent as to the location and nature of the structure, as to whether the company was to be a joint. stock comprany or an incorporation, as to what amount was necessary to accomplish tho object sought, and as to the mode and method of raising the necessary fund to compleic and equip the building, the specific purposes for which it was to be uecd, and the way in which its business was to be conducted. Hendrix vs. Acadeuy of siusic, decided February 7.
Consignment-Bill of Ladina-I'syment. -In the case of Ruhl et al, vs. Corner et al.. decided by the Maryland Court of Appeals on the l2th iast., it appeared thas the appellees, commission merchants in Baltimore, reccived a shipment of a car-load of "Champion" fleur of 125 barrels from ono Merian, of Mlinncapolis (Minn.), without order. Dicrian advised the appelices of the shipment by letter. stating the

