lie flat on the ground, and the other is raised to about a vertical position, and it may then be readily detached.

a corn cutting and grinding mill, which is an improvement ¹ followed beyond cases of the same statutory class. upon the form of corn crusher in which the ears of corn in the husk are fed through throats, sliced into sections by purchasing a patentable article before the application for a revolving knives, and these sections then rendered fine by patent is limited to the right to use or vend the specific thing, each apple should be wrapped in soft tissue paper, prepassage between grinding surfaces. The invention consists and this, whether it be regarded as a legislative construction in combining with the feeding throats and knives, a set of of the former acts or not, may properly govern the right of spring seated tables, which hold the ends of the ears of corn | recovery in actions brought since its passage. while being cut, and which allow the sections being cut off to press down to accommodate the thickness of the knife, a city is liable. thus preventing the knife from hanging in the ear, and rendering the cutting action easier.

a machine for cutting screw threads. The improvements relate to machines for cutting screw threads on pipes and couplings, internally and externally, and are designed to accomplish such work more rapidly and perfectly than has or terms indicating that they are manufactured under a heretofore been done. Rotary cutters formed with serrated patent which he does not own and has no right to use. edges are employed. The arbors of the cutters are fitted in a revolving head that has an endwise motion propor- allowed to defend himself by denying the validity of such result gained, and the splendid condition of the fruit when tioned to the pitch of the screw, so that while the cutters patent. rapidly revolve with their arbors they also travel in a spiral path upon the surface being operated upon.

Mr. Charles G. Trafton, of Slatersville, R. I., has patented a thread guide for spooling machines that is self-adjusting try in this country to find fault with our patent laws and ance made for it accordingly. to the yarn as the latter runs from the bobbin to the larger the manner in which they are enforced. There is hardly a spool, so as to avoid friction. It consists in a guide plate trade that has not at frequent periods its crop of harassing provided at one end with a curved friction surface and at patent suits, which perplex the manufacturer, the dealer, ! the other with a slotted fiange and a plate, in combination and the consumer. It is not surprising, therefore, that the Charnay in ancient cemeteries high up on the slopes with a rod having projections at its top to limit the move dissatisfaction thus created finds expression in complaints. ments of the plate sidewise and a screw which serves as a pivot for the plate.

Robert S. Mudford, of Texarkana, Ark. The object of this rests. A committee is appointed, and, if its members are invention is to improve the construction of the gin saw in earnest, a report is drawn up suggesting possible measures sharpeners for which Letters Patent No. 20,933 were granted of reform. Such has been the course pursued by the millers, to A. H. Burdin, July 20, 1858, in such a manner that they and we learn that the brewers have taken the first steps in will bring the teeth to a better condition.

a mechanism for stopping and starting street cars, so con- in the manner best calculated to secure the reforms desired. structed that the momentum of the car can be used for The reports of such committees are so evidently biased by stopping the car, stored up, and again used for starting the the interests of the members, as defendants in patent suits, car.

patented a tool for sharpening the teeth of cotton gin saws. ticularpatent or patents which menace them, and the fact It is made in three pieces-the sharpening bit proper, which is lost sight of that it is to the interest of every enterprising cealment for a third tribe. Tradition says that after the is shaped at its outer end to enter between the teeth, the head manufacturer to aid in sustaining patents. In many cases or shank, which is formed to receive and support the bit, where complaint against the patent system is loudest, and a sliding collar, which clamps the bit in the head by a known rights have been infringed, and the protests of pawedging action.

DECISIONS RELATING TO PATENTS. By the Commissioner of Patents.

STEVENS VS. PUTNAM, --- INTERFERENCE, --- WIRE BARBING MACHINE.

Marble, Commissioner:

1. The earliest date at which an invention can be said to exist is that time when there was in the mind of the inventor of this character commonly have a great deal to say about a well defined idea of something which might rightfully constitute the subject of a patent.

2. The law is well settled that a mere unembodied principle or discovery is not a subject of a patent, and it must follow that the mere mental apprehension of the same is not the conception of an invention. When, however, the principle or discovery is rendered of practical service by its embodiment in material form, there exists something for which a patent can be allowed, and the union in the mind of the inventor of the principle or discovery with the means of its embodiment is conception of the invention.

3. A combination, as distinguished from a mere aggregation, may be defined as a union of elemental parts co-operating dependently to produce a desired result, and a conception of such combination must include not only the idea of associating the parts, but also that of so uniting them that fringement of patents. If he manifests a fair and liberal there will be a dependent co-operation.

4. The fact of the conception of an invention is one which public policy demands shall have been so evidenced as to be is not likely to have serious trouble. As the rule, it is capable of other proof than the mere allegation of the inven- cheaper to purchase a right under a patent than to tor that such invention was at a certain time in his mind be-

3. The patent involved in the case of McClurg vs. Kingsland was for a method of casting iron rollers, and it is not Mr. John O. Grisham, of State Line, Miss., has patented probable that the decision rendered in that case would be

4. By the act of 1870 the right of a person constructing or

U. S. Circuit Court-Northern District of Illinois.

Mr. Isaac S. Schuyler, of Brooklyn, N. Y., has patented WASHBURN & MOEN MANUFACTURING COMPANY VS. HAISH. -BARBED FENCE WIRE.

Blodgett, J.:

1. A person has no right to mark his goods with any words

2. A defendant, having so marked his goods, will not be

Complaints about the Patent Laws.

There is a growing disposition in some branches of indus-Naturally, the subject comes up before the associations formed among those belonging to the various trades for their An improved gin saw sharpener has peen patented by Mr. mutual protection and the advancement of common intethat direction. All this is very well in its way, but it does Mr. James H. H. Taylor, of Lawrence, Mass., has patented not seem as though the agitation of the subject is conducted as to have, as the rule, little or no value. The one great Mr. William W. Rochelle, of Star Landing, Miss., has and sole object of their efforts seems to be to beat the partenteeşdisregarded, in the belief that it was cheaper to take the chances of infringing than to recognize the demands of those whose claims were disregarded. Patents thus ignored almost always acquire an unexpected value before they expire, and it is quite usual for them to be made the basis of expensive suits. Often they are sustained by the courts and become very valuable, for the simple reason that they have been infringed without regard to consequences. Manufacturers who find themselves figuring as defendants in suits the injustice of our patent laws. Perhaps they are unjust in their requirements in some instances, but to modify them in any essential particular in points touching the value of valid patents would be to destroy an immense property right, and to make it extremely difficult for an inventor or the owner of a patent acquired by purchase to protect himself in the enjoyment of the rights it is designed to secure to him. It may be vexatious to settle or defend frequent demands for royalties and damages; but it is still more so to know that you have valuable rights in patents which you are unable to enforce, and that which should belong to you alone has become common property.

The only safe and honorable position for the manufacturer is one of justice and fair dealing. He should act advisedly with regard to the payment of royalties and the indisposition in this matter, and a willingness to recognize the rights of others as beginning where his own rights cease, he defend an infringement; but when a manufacturer perfore it can avail him anything, and so long, therefore, as he sistently disregards notices and warnings, and takes his upon to pay for what he has taken without leave. He may, at least, have the satisfaction of knowing, under such circumstances, that every decision of the courts affirming the validity of patents increases the value of those he owns and BRICKILL et al. vs. THE CITY OF NEW YORK. -FEED WATER | controls, and that he has thus a direct interest in sustaining all good patents. But then we must make some allowance for human nature, and it certainly does make a great differ-1. Letters patent No. 81,132, granted August 18, 1868, to ence in a man's feelings whether he appears as plaintiff or defendant in a patent suit. He often does and says a great many things when he is defending an infringement suit which he would be very sorry to have quoted against him should he ever find it necessary to move for the protection of his own any specific machine, manufacture, or composition of mat-

Apples for Foreign Markets.

Speaking of the magnificent apples shipped from the United States, the London Magazine of Pharmacy says that there is no reason why this splendid fruit should not be received in London as fresh and blooming as when first gathered from the tree. To secure this most desirable result viously soaked in a solution of salicylic acid and dried.

The best preparation of salicylic acid for this purpose is the alcoholic solution, made with the strongest spirit, and 5. For an infringement of a patent by its fire dapartment | then diluted with as much water as it will bear without precipitating the acid, so as to make the solution go as far as possible. Each apple should be enveloped in at least three or four folds of salicylated paper, and every possible precaution should be taken to prevent bruising when loading into the casks or cases. Well-packed apples should not move at all during the voyage, and the shaking of a railroad train should have little effect upon them. Nevertheless, a certain amount of contusion is inevitable, and to avoid the ulterior results of this, the salicylated paper is indispensable. As to the cost, it would be a mere trifie when we consider the it would enter the London market. Besides, it is very probable that the salicylic acid paper used for packing the apples in America might be used over again, or applied in England to some similar antiseptic purpose, and an allow-

Prehistoric Mexico.

Very interesting discoveries have been made by M. Desire of the volcanoes Popocatapetl and Itztaccihuatl. The burial place on the latter mountain is high above the line of vegetation. Just below it is a small valley almost concealed on three sides by a natural bulwark of stupendous rocks.

Access to this singular dell scemed at first impossible; in fact, was so difficult as to lead M. Charnay to doubt the tradition of a Chichimecan village having existed in such a place. Excavations have led to the supposition that this narrow valley had been a temporary refuge of the Toltecs, perhaps as early as the year 600. It bore evidence too of having been inhabited by the Chichimeca Indians. Idols and household utensils similar to those found in ruined Chichimecan villages were dug up from a depth of from three to four feet. Singularly, too, there were found near the surface Aztecrelics, which proved that at a comparatively recent date this natural stronghold had served as a place of con-Spanish conquest in 1520 a few spirited Aztecs and Tlatelolcos, rather than submit to slavery or accept the doctrines of the invaders, fled with their "lares and penates" to this mountain fastness and subsisted on corn, frijoles, and other vegetables, burying their dead as near the "snow line" as possible. Many Aztec idols, vases, and jars were unearthed there.

----Pacific Coast Fishes.

The United States Fish Commission have obtained on the Pacific coast 270 species of fish. Among these are nineteen species of sharks. Two large toothed man-eater sharks, caught in Monterey Bay, measured from 23 to 24 feet in length, and weighed fully two tons each. Another variety of shar's found on the coast averages 32 to 33 feet in length, and weighs three tons. Their teeth are small, and they are not dangerous. Monterey is a middle ground where the fishes from north and south meet, and no locality on the Atlantic coast is so rich in species. It has about 130 species; San Francisco about the same; Santa Barbara, 95; San Diego, 80; and Puget Sound, 90. The so-called perch, found on the California coast, are not true perch. A million and a half of salmon, averaging from 25 to 30 pounds each, are taken from the Columbia River, and from seven to eight millions of pounds of fish are taken from San Francisco Bay and marketed.

Monument to the Original Promoters of the Union Pacific Railway.

Norcross Bros, of Chicago, have contracted with the Union Pacific Railway Company for a monument to the memory of Oliver and Oakes Ames. The monument is to be located at Shannon, Wyoming Territory, at a point about 400 miles west of Omaha It is at the highest point in the Rocky Mountains which is crossed by the railroad. The monument is to be 50 feet square at the base, and 60 feet high, pyramidical in outline, with three slopes. The material will be Black Hills granite. There are to be two medallions representing the heads of Oliver and Oakes Ames in alto-rilievo. One will face the east and the other the west, at a height of 40 feet from the ground. On the side next to the railroad will be an inscription, "In Memory of Oliver and Oakes Ames." The medallions are to be cut out of McGregory quarry brown stone. There is also to be a bronze tablet, which will more particularly show why the monument was erected. The contractors are to complete the work in about two years. The cost is to be about \$80.000.

keeps his invention unembodied and undisclosed it cannot chances as an infringer, he should stand by the conseserve to antedate and thus defeat the invention of a contest quences like a man, and not whine nor complain if called ant.

United States Circuit Court.-Southern District of New York.

HEATERS FOR STEAM FIRE ENGINES.

Wheeler. J.:

William A. Brickill, foran improvement in feed-water heaters for steam fire engines construed and sustained.

2. Section 7 of the act of 1839, which provides that every person or corporation may use and vend to others to be used application for a patent, applies in cases of patents for sub- on committees representing cliques of defendants interested stantive things to the particular things so purchased or con- in suits brought to recover damages for the wholesale ininvention without liability.

always be taken with some allowance.—Iron Age.

An accidental dropping of a cipher in our recent descripter which they have purchased or constructed prior to the of improvement, but the men to improve them are not found ition of the heavy Worthington oil pumping engines leads to an obvious understatement of their efficiency. The work actually done by some of these pumps is the pumping of structed only, and does not include the right to practice the fringement of valid patents. What they have to say may 15,000 barrels of oil through 100 miles of pipe, against the enormous pressure of 1,500 pounds per square inch.