A Patent Fertilizer which Anybody May Use.

In December last the United States Circuit Court, Baltimore, in the case of Boykin and Carmen against R. J. Baker & Co., which was argued before the court several weeks ago, Judge Morris filed his opinion in favor of the defendants. The action was for alleged infringement of a patent for the manufacture of fertilizers beld by the complainants, from the manufacture and sale of which they would have derived large profits, had not the defendants and others infringed upon their patent. The court held that the only difference between the formula patented by complainants from the old

phate of soda, and sulphate of ammonia, in proportions substantially as follows:

soda, forty pounds; and sulphate of ammonia, thirtyunleached ashes.

ashes, if such matter is used as the base of the mixture, are strings.

at once, and to enable the operator to play the accompaniment with the tune. The invention consists of a violin pro-Dissolved bone, three bushels; ground plaster, three vided with a sounding board extending over and supported bushels; nitrate of soda, forty pounds, sulphate of on the violin belly, with its tongue engaged in a pocket of the finger board, of a number of auxiliary strings stretched three pounds. This mixture is incorporated with, say, between the usual strings, of a swinging link pivoted in the twenty bushels of dry peat or muck, and three bushels of scroll for the attachment of the auxiliary strings, of a tail piece for holding the usual strings, and provided with tight-The manner of preparing a fertilizing compound from the ening pins for holding and setting the auxiliary strings, and above ingredients is as follows: The peat or muck and of the bridges set on the sounding board to support the



h Motaper

Liebig formula was the substitution of dissolved bone and first thoroughly mixed with the dissolved bone, and the ground plaster for ground bone and calcined plaster, and nitrate of soda, sulphate of soda, and sulphate of ammonia, that the patent was invalid for want of novelty or any after being dissolved in water, added thereto. The ingredipatentable discovery. A large interest was involved in the result of this suit

The patent in question is No. 206,077, dated July 16, 1878, and it describes the making of the fertilizer as follows:

This invention relates to a combination of chemicals to be used in connection with dry peat or muck and unleached ashes, or with any refuse matter having fertilizing properties, to form a fertilizing compound; and it consists in com-

Mr. John F. Petri, of Midland Park, N. J., has patented a coupling for telegraph or other wires, by means of which wires can be joined more expeditiously and with less labor ents are next incorporated with the ground plaster, after and expenditure of force than by the usual method of twistwhich the compound is allowed to stand for, say, thirty or ing them about each other. The invention consists in coupforty days, when it becomes ready for use.

-----NEW INVENTIONS.

An improvement in violins has been patented by Mr. Phineas Topham, of Newark, N. J. The object of this invenbining dissolved bone, ground plaster, nitrate of soda, sul the notes of the violin, to facilitate the playing of two notes closed sleeve about the point of union.

ling the wires by means of a semi-cylindrical metallic plate having two radial holes to receive the bent ends of the wires. The wires having their ends bent at right angles are laid in the plate with their ends entered into the holes therein, and the said plate is then, by means of a hand vise or other suitable tool, clasped tightly about the wires, so as to form a

patented an improved filter. This invention relates to im- and jointed at their upper ends to the upper ends of two sharp edges of the figures would be injured by polishing. proved apparatus for use in effecting the operations of disjointer levers on opposite sides of the press, and which are After the figure is cut in relief, a final polish is given, using solving solids in liquids and producing chemical reactions, pivoted below to the main frame. An upper central wind a little putty powder dry on a stiff brush. In this operation and of filtering or separating liquids from solids in chemical ing shaft, worked by a draw rope, has secured to it the and metallurgical processes, in which a soluble substance or opposite ends of a rope which passes around pulleys con- cameo is then removed from its wooden handle, and is ready substances, mixed or combined with an insoluble substance nected with the upper ends of the side levers for drawing for sale. The pink conch shells make a very delicately or substances, is or are to be dissolved separately or together, ; the latter toward each other to give the necessary compress.; shaded cameo that is highly prized for brooches and cuff wholly or partially, in a given solvent or solvents, and the ing action to the follower, which may afterwards be raised buttons. solution separated by filtration from the undissolved residue by a separate rope and pulley attachment. With this con-The invention consists principally of a rotary decanting filter, struction the follower is forced down with great power, but which is composed of an outer barrel or cylinder and an may be quickly raised. inner perforated shell covered with filtering material, the An improvement in the class of grain separators which little crusher of our daddies is being replaced by the modintervening space being divided into segmental compart-include a traveling endless band elevator and a "shaker," ments provided with a draw-off cock for running off the or means for separating the oats from the straw and convey-apples in ten hours. As to the best method of caring for liquid when separated by filtration. The outer cylinder of ing the latter away from the machine, while the grain passes and refining cider, no better rule perhaps can be adopted this rotary filter is provided with end angle-iron hoops downward and is winnowed by a fan blast, has been pa- than running it directly into tanks from the press through a arranged to run in grooved rollers mounted in a suitable tented by Mr. William H. Janney, of Martinsburg, W. Va. 1 sufficient number of strainers to detach all the pomace posframe or cradle. Either one or both of the heads of the cask The improvement relates to the construction and arrangeare made removable to give access to the interior of the ment of the parts by which the course of the falling grain to run on the leaches, rack it off. By this process a purer filter. The inner cylinder is made up of grooved and performed has blast is directed, so that the grain is more thoroughly article can be obtained, which will run through the leaches rated staves for operation in combination with a filtering cleaned, and without the aid of vibrating or other screens. cloth applied to said cylinder. Besides these there are nume - An improvement in nippers for operating upon hogs, to no particular scientific test necessary to determine just what rous other peculiarities of construction which assist in pro- prevent them from rooting, has been patented by Mr. Wil- stage of fermentation is necessary before racking off. ducing a filter, for the purposes named, that shall keep its liam B. Lyon, of Pontiac, Ill. The invention consists in a filtering surface free from being clogged by particles of solid; pair of nippers provided with a hook at the end of one jaw, cider ferment in the tanks to 18°, but not lower. It is matter, and that shall present a clear and unobstructed filter-1 which is elongated for the purpose of drawing out the ten- always best to ferment as much as possible while still retaining surface for effecting the rapid separation of the liquid don, and with a knife on the other jaw for cutting the ten-ing sufficient sweetness in the flavor. In racking off, it from the solid matters.

improved heater, which, without being expensive, is very and does its work with but little pain to the animal. convenient. The object of this invention is to construct a beater for burning coal or wood, or both together, whereby advantage may be taken of the cost or convenience of the of the weather. Said heater consists principally of a hung about the neck were a protection against evil spirits to 15°. lower coal burning fire-pot chamber, and an upper and witches. Beside the brilliant and transparent noble chamber.

this the uneven stock, be it either cotton or wool, is taken tury, particularly in Florence. The fabrication of vessels rior manner to other sand. from the outer edges of the main cylinder of the "finisher" and articles of splendor from rare stones, which had also In leaching much depends on the dampness or dryness of by card-clothed rings on the ends of a third doffer or been done in Greece, was renewed here in the finest manner. the sand, as to how much cider should be run on when first worker, and is passed to a pair of rolls over which is a The cabinet of gems in Paris and Florence, the imperial started. A medium grade of cotton factory cloth is about vibrating roller, where each strand is partially felted to treasury at Vienna, the treasure chamber in Munich, and esclas good as any other kind for use on the leach, with, say, a gether. From thence each strand passes under a guide pecially the Green Vaults in Dresden, all possess a large foot or two square of rubber cloth resting on an overlay of finger to a twister-tube, where the two strands are twisted i number of such works of art from the hands of Italian, i burlap for the cider to strike on, as a very little ripple in together. From the twister-tube the now single strand French, and German artists. In the seventeeth century dur- the cider is liable to crack the sand. A new way of cleanpasses through carrying rolls to a carrier pulley, from ing the Thirty Years' War, when all art was crippled and ing these cloths has been introduced by hanging them up to whence it is caused to pass and unite again with the draw-retarded, the art of cutting stones also declined, and with dry and then whipping out the pomace like dust from a caring to be refed to the feed table of the carding engine, thus the exception of a short revival in the eighteenth century, pet; hot water, it is asserted, cooks the cider into the cloths causing the fed stock to be more even than if composed of not much has been accomplished since. the single drawing feed alone.

plows in which a guide plate extending into the soil deeper branch of industrial art. According to the Techniker, cameo the cider comes in contact with it, although it is probable than the point of the plow is arranged in rear of it, has been cutting was exclusively confined to Italy and Rome forty that foam will form on any cloth at certain times, which patented by Mr. John Brandly, of Lillington, N. C. The years ago, but now Genoa has about thirty persons engaged may not be any indication of fermentation. Steam will plow standard has plates pivoted thereto with a recessed in this art, Romeeighty, and Paris over three hundred.

Mr. Juan F. N. Macay, of Charapoto, Ecuador, has means of levers pivoted at their lower ends to the follower, so far as possible, is finished with cutting tools, because the

.... Cameos.

The art of cutting stones, comprising the lapidary's art, and vessels with cameos, and in fact cut out whole vessels turb the sand below.

Mr. John Murphy, of Auburn, N. Y., has patented an im- of great beauty and of technical perfection. This is seen in As to size and capacity of leach, one three feet by twelve

plate secured between them. The guide projecting into the The cameo cutters of to-day employ not only precious thing else, whether in clothes-racks or barrels. soil below the point of the sweep steadies the latter and pre-stones, but shells, lava, etc Certain species of univalvular As to cleaning racks, lime has been used with good results, vents any lateral movement of the sweep. mussels are especially suited for cameos, because they con-; where steam or abundant rinsing with water is afterward An improvement has been made in flaxseed cleaners, sist of several layers of different colored material, which also employed. A hose and a good broom are often all that is which is also applicable to other seed or grain cleaners, vary in hardness and texture. These shells are worked in needed for the purpose. The improvement is the subject of a patent granted to Mr. such a manner that the direction of the leaves of the middle. The old process of refining by sounds or isinglass is being George Beal, of Gilman, Iowa, and consists in operating the layer runs lengthwise. In these cameos the middle layer discontinued in favor of sand, therefore we do not give screen of the apparatus by means of a bell crank lever, hav- forms the body or the relief, and the inner layer the back | space to any suggestions as to that mode of treating cider. ing its axis arranged transversely to the screen, and which ground, and the external differently colored layer on the sur-In the matter of keeping cider, all that is to be kept for is actuated by a rotating wiper wheel, the axis of which is face gives to the figure a different appearance or a special set-) any length of time through hot weather should be racked transverse to that of the lever, whereby the screen has a ting. In selecting shells with three strata, the artist selects off in the spring, as it is subject to a second fermentation suiden and rapid lateral as well as a quick and jerking lon- one where the layers adhere together well, the middle one sometimes, and then a cool cellar without ice is preferable. gitudinal movement given to it. This effects a very thor- being quite thick, and the three different in color, while the Good whisky barrels are best for putting up cider, which ough cleaning. Special means are provided for preventing, inner one is of such a shade as suits the intended work. can always be improved by an additional racking before The shells are first cut into pieces of suitable size by moving it from the cellar. The old treatment by putting in undue lateral movement of the lever and for keeping it in means of a slitting tool and diamond dust, or a steel knife mustard seed, raw beef, and similar primitive substances of contact with the wheel. Mr. John W. Baker, of Hardin County, Tenn., has pa- supplied with emery and water. These pieces are fastened our grandfathers has pretty generally given place to the pretented an improved baling press for baling cotton, hay, and on a four-sided, oval, or other shaped stone, and the edges servative qualities of salicylic acid. other materials with facility and dispatch. The press which polished with an oil stone. They are then cemented on a These improvements in making, refining, and keeping forms the subject of this improvement has the sides of its piece of wood to serve sa a handle to hold the cameo while cider have brought it up to such an excellent standard as a baling box extended upward to form guides for the fol- be draws upon it the figure that is to be cut in it. The beverage that our bottlers are turning their attention to it as lower, which is provided with upward extensions to work marks of the pencil are now followed with a sharp pointed a winter industry, and they are now extensively supplying therein. The head block is attached to the sills of the instrument which cuts the required outlines. Then finer it as an excellent aerated bottled beverage, generally under frame, and has combined with it and the frame removable tools of steel, wire hardened and polished on the end, files, the name of champagne cider, and greatly improving its side planks secured by tie bars for removing the compressed and engraver's chisels are employed to remove the superflue pleasant and healthful properties by the sparkling effervesbale. Power is applied to the follower to depress it by ous parts of the white enamel. The surface of the cameo, cence of carbonic acid gas.-American Bottler.

great care must be taken not to scratch the surface. The P. N.

Cider--Its Purification and Preservation.

Of the cider mill nothing more need be said than that the ern power press capable of pressing one thousand bushels of sible; then after fermentation has gone nearly far enough with less waste and far less liability to clog up. There is Experts claim that experience has taught them to let the don and splitting the hog's rooter. This device is simple in will ferment a little and is in good condition to be put on Mr. Daniel L. Lamson, of Fryeburg, Me., has patented an its construction and certain and effective in its operation, the leaches at 15°, which is perhaps the best test for that process, although a tank filled with cider which may have been run to 19°, or even as high as 25° of the saccharometer, will run off generally at a uniform test of about 22°, not varying perhaps more than 2° in the test of different tanks. fuel supply, and the fire be better adapted to the condition owes its origin to the innate superstition that precious stones It has been asserted that cider will keep better run down

In making leaches pine lumber is doubtless best, and cerwood burning chamber, with a radiating space between stones or gems, like the diamond, ruby, emerald, sapphire, tainly wood in preference to metal. The sand can be set them to permit free radiation from the top of the one topaz, amethyst, which were more rarely employed, the from four to six inches, according to the season, the lighter and the bottom of the other. The main smoke flues are translucent and opaque or soapy-looking stones which take leach being best for warm weather and the heavier for cold. arranged in the form of a cross, centrally intersecting each a fine polish were mostly employed. Among the latter No leach should stand over two settings, as it is not probaother above the wood-burning chamber, and connecting are the opal, turquois, and agate, or common rocks like ble that clear cider can be obtained after a second skimrespectively by side flues and branches with the two cham- granite, syenite, and basalt; or those of animal origin, such ming. Of course skimming is understood to mean scraping bers. Valves or dampers serve to control the draught from as ivory, coral, mother-of-pearl, and amber, as well as metals. off the sediment from the sand which gradually forms on either chamber independently of the other. The combination These were variously ornamented by different kinds of cut- the top, which causes the cider to run slowly. After this, of these two fire-chambers for burning different kinds of fuel ting. By deep cutting bold relief pictures were formed; by when the cider ceases to filter through in good condition the in the one structure is a convenient one, thus a quick heat slight cutting, the bass-relief. The latter are called cameo. sand must be thrown away and new setting made. Cider may be obtained from the wood burning chamber, while a The Greeks, who received the art of cutting stones from the seldom runs through with as good results after the skimslower but more lasting one is progressing in the other East, did some excellent work; they decorated many utensils ming as before, and especial care must be taken not to dis-

proved carding machine. This invention is designed to be the so-called Portland Vase in the British Museum. The old feet and fourteen inches deep, with four to six inches of applied to what is known as the "finisher" carding engine Romans, too, who learned this art from the Greeks, are dis sand, will run through twenty casks of cider without change which receives the material in the form of drawings from itinguished for excellence in it. In the early centuries of of sand. Much question has arisen as to the possibility of the "second breaker." The object of the invention is to the Christian era this art was cultivated in Constantinople thoroughly cleaning and renewing the sand for further use, avoid that inconvenience and waste of stock which has here- especially, while it seems to have been but little known in but it is probable that the best way to renew it is to get a tofore been occasioned by the uneven and lumpy nature of the West. In the fifteenth century it was brought to Italy new car load. For all convenient localities Massachusetts the outer threads of roving as they come from the outer by Grecian workmen from Constantinople. It was cultivated sand is perhaps the only sand that should be used, as it rings of the doffer cylinders of the finisher. To accomplish there up to the time of the Renaissance in the sixteenth cen- contains some mineral element that refines cider in a supe-

like apple sauce, while some prominent cider-makers have At the present time the manufacture of cameos is carried noticed a foam on cloths cleaned with water after the juice Improvements in that class of cotton sweeps or shovel on chiefly in Genoa and Rome, as well as in Paris, as a had again started through, which begins to ferment when probably destroy the germ of fermentation as well as any-