OMISSION OF OATH UNDER SEC. 6. ACT OF 1836...
FRAUD IT OBTAINING THE EXTENSION ... THIRD FRARTIES CAN NOT TAKE ADVANTAGE OF SAME... LAW OF COMBINATIONS....WHAT WILL INFRINGE a COMBINATION CLAIM.

We give below the most valuable portions of a decision lately made by Beliknap Mills













 (firec:-:ins The complainant's bill must be dismissed with cost.
B. R. CURT1S \& CAUSTEN Browne, for Complainant.

## mandfacturing, mining, and railroad items

The first annual fair of the Lake Shore Grape Growers' Association will b ld at Erie on Friday and Saturday, October I5 and 16.
The Titusville Heralla says that the petroleum production for August wa The Central Park Commissioners have defined the lines and filed the map or the widening of Broadway from Thirty-scoond street to Fifty-nint The mean rate of discharge of the Mississippi into the Guif of Mexico is second. A new granite quarry has been opened in Jamesport, Washington count Maine. The stone has a beautiful pink color, wh
der the stone very valuable for bullding purposes.
Twenty-two States were represented at the meeting of the American
Pomological Society, at Philadelphia. The exhibition of fruit was very ttractive and comprised a great number of specimens.
About 100 feet of embankment of the Erie Canal at Pool's Brook, near Kirkville, were carried out on the 21 st of September, and the flood covered
he Central Railroad track, temporarily suspending travel. One track w in use. It will require several days to repair the break.

A huge chilmey has been completed at the Earl of Dudley's estate at
oneygrc Works, near Dudley, England. Special arrangements for the consumption of fuel necessitated the carrying of the stack to a hight of 190 feet. It is
ground.
The Croton Water Works in process of erection at High Bridge are now well ad vanced, and by next spri ig the inhabitants of Washington Hights
are promised all the water they want. The reservoir is nearly completed, requiring only some grading of its banks, coping, and further work on th

Herr Krupp must look to his laurels. A larger block of steel than ha weighs 200 tuns, whereas the block with which Krupp astonished the world $z t$ the Great Exhibition
surpassed this feat in later years.

Dr. Koller recommends concentrated glycerin as a substitute for spirits
of wine for the preservation of zoological and anatomloal preparations, on
and that moreover, it preserves better the natural culor of vario us preparations usually kept and preserved in spirits of wine
The contractor for the erection of the railroad bridge over the Missouri
river, which is intended to connect the Missouri and Iowa railroads . irect. river, whichis intended to connect the Missouri and lowa railroads sirect
Iy with the Union Pacinc is said to have received notice from the Irish la borers of that locality that he will not be allowed to employ Chinamen on the work. He has, nevertheless. rade contracts in California to obtain Chinese laborers, and he intends to bring them to Omaha soon. It is very probable that we shall soon hear of some fighting
M. Pollack, of Boutzen, Saxony, states that he has used for several
years, a paste made of pure oxide of lead, litharge, and concentrated years, a paste made of pure oxide of lead, litharge, and concentrated ture hardens rapidy, is insoluble in acids (unless quite concentrated), an is not affected by heat. He used it successfully in joining different portions break the stone than effect a separation at the joint.
As a new method of fising dificultly decomposable minerals, it is recom-
mended that 1 part of the mineral, previously very tinelypowdered, should mended that 1 part of the mineral, previously very finelypowdered, should
be mixed with 3 parts of fluoride of sodium, and that this mixture afte having been placed in a platinum crucible, should be covered with 12 part of powdered Disulphate of potassa. Chrome iron ore, hard hematite, til of powdered Disulphate of potassa. Chrome iron ore, hard hematite, tin
ores, and rutile corundum, and the like, are very readily brought to fu sion and disintegrated by this flux. even with no more heat than that ob The Shipping and Commercial List, of New York, in alluding to the amounts pald to passengers by the different railroad companies as compen inficted the injuries that had to be pald for was the result of a natura cause. Most of them were attributed by the verdict of the coroners'Jurie to broken rails or the carelessness of employes. Experts have declare that accidents from broken rails would be practically done away with, were
the rails made in $t s o$ or three continuous parts, and the expense of this in the rails made in tso or three contin
In the year 1868 there were 3,991 applications for letters patent flied in the Britunted to 1192\%1 pounds. After deducting expenditure the of siderable yearly surplus income; and the aggre eate surplus from 1852 to the end of last year exceeds 726,000 pounds. The Comm18sioners complatno the insuffciency of the buiding for the requirements of the office. Com more than 2,500 volumes-lave been presented to the most important town in the king $\mathbf{d o m}$, to be accessible to the pablic free of charge.
M. Reinsch, having experimented with various salts in order to de termine to the conclusion that impregnating timber with a strong solution of rock sait is as good (if not a better) preservative against its bursting into flame
as water-glass (silicate of soda). Bock salt costs much less than water glass, and it has also the ef ect of keeping the timber freo from dry-rot and noxious insects. He also says that the use of a solution of salt in extinguish ing a fire with ire-engines would be very effective, but it is questionadi
whether the engines would not soon become worthless from the effect o the salt.
The recent terrible coal-mine accident at avondale, says the Easton which occurred in Carbondale in i850. A large mine caved in, destroying over a hundred lives, and ruining the mine. When the cave-in occurred the pressure of air from the falling mass was so great that it blew a boy and a mule an eighth of a mile out of the narrow entrance to the mine. A fe damp and foul air, but the most of them perisbed by starvation, or fell prey to the rats. which in coal-mines grow to an enormous size. One man was seven days in digging his way to the surface.
A bituminous composition, which may be used in the shape of bricks or
as a coating on any desired foundation, has been invented, and is said to be suitable for the bottoms of reservoirs, for pavements of streets and ter races, and many other applications. It is composed of the following in
gredients in the proportions stated: For every 100 pounds weight of bitu en-sulphur, 8231 lbs ; gallpot (or lamp-black, $123 / 1 \mathrm{lbs}$; sand, $25 \mathrm{lbs}=100 \mathrm{lbs}$. For bitumen to be applied on
wood the quantity of sand may be reduced by about 5 lbs weight, and it is preferable that the wood be rough. In preparigg this bitumen the sulphu must first be thoroughly melted in a aheet iron caldron or in an earthen-
ware pot; the galipot is then added, and when this is almost entirely melted the lampblack is introduced, and, lastly, the sand. The whole carefully mixed over a moderate fire.
A charcoal flower-pot has been patented in England. The charcoal is
molded into the approved form in such a manner that its peculiar porosity nay be in no way interfered with. By this means, not only is the oxygen ater with which the sil is moistened is by the fltering and purify water with which the soil is moistened is, by the filtering and purifying
powers of the carbon, deprived of all those "hard " qualities which are nown to be so deleterlous to the growth of plants. Further, the sulpar ous vapors, which are usually present in the atmospbere of large towns and constitute the principal reason why floriculture is attended with 8 much difficultJ in all cities heated with coal and lighted with gas, are, by
the use of the charcoal nlower-pot, fled in the pores of the carbon ceous sponge. Hence, not only are pure air and pure water insured to the plant; but, all noxious vapors being removed, it follows that a healthy and vigorous growth and luxuriant development cannot but ensue.

## NEW PUBLICATIONS.

Man in Genesis and Geologx; or, the Biblical Account of Man's Creation, Tested by Scientific Theories of his
Origin and Antiquity. By Joseph P. Thompson, D D Origin and Antiquity. By Joseph P. Thompson, D.D.
LL.D. New York: Samuel R. Wells, Publisher, 389 Broad way.
The kind of discussion contained in this book is of very little interest $t$ and we regard it a of very hitle value to the worla. The statemen the very threshold of the book. This statement is in the words of the author as follows: "No fact declared by science can be accepted as true if it
onflicts with any statement of the Bible." That an author starting with nch a proposition could ever arrive at truth is man author starting with ore it is not surprising that the book instead of being a candide research fter truth, is a weak attempt to make all known facts coincide with the writer's interpretation of the Scriptures. Not that the facts of science necessarily contlict with the Mosaic record. All we can say is, that in some cases they seem to connict with our understanding of that record reconcelved notions-a standard of candor to whichthe author of thi book has been evidently unable to attain.
The Metallurgy of Iron and Steel, Theoretical and Practical, in all its Branches, with Special Reference t
American Materials and Processes. By H. S. Osborn, LL.D., Professor of Mining and Metallurgy in Lafayette College, Easton, Pa. Illustrated by 230 Engravings on
Wood, and 6 Folding Plates. Philadelphia: Henry Carey Baird, Industrial Publisher, 406 Walnut street Trubner \& Co
elebrated work of Crookes and Rähris oreatise, rivaling in extent the stated in the title, more especial reference to American materials and pro. me to give it the examination it merits.

Wearealso in receipt of the Annual Report of the State Engineer and State Engineer's Report on Railroads for the same year ; able docum ents readers in due time

## Facts for the Ladies.

This is to certify that I bought a Wheeler \& Wilson Sewing Machine,March , was afflicted with spine disease. It proved the best doctor I ever employed for she not only regained her health, but has earned a living with it for her self and me ever since.
New Yorlk Nov. 29, 18

## gusites ani seromat.

The Chargefor Insertion under thisheadis One Dollar a Jine. If the Notices exceed Four Lines, One Dollar and a Half per line woill be charged. useful invention. Address J. W. Lucas, Portland, Me.
Metallic Letters to put on Patterns ; also, for numbering street Lubricator for loose pulleys, in general use. Satisfaction guaranteed. The patent for Eale. Address Box 31,648 Broadway, New York. Wanted.-Builders of Hoisting Machinery, suitable for a fivestory factory, to send their descriptive circulars and price lists to S. N. Brown \& Co., Dayton, Ohio.
The great scarcity of water in our large cities is mainly caused by the enormous quantity wasted, which can be prevented by using the
Boston Safety Eaucet (self-closing), the saving of water in one building in this city being over (self-closing), the saving orths. For sale by Jose Zane \& Co., 81 Sudbury st., Boston, Mass.
A Rare Chance. Terms Reasonable.-Foundery and Machine Shop to Lease, for a term of years, in Galveston, Texas, the best location in the soum. Adarse M.L.Parry, Galveton, rexa
Union Arm Chairs,for hotels,offices,piazzas,and all places. Best lair,Mottvine, NY. Manufacturers of Power Hoisting Machines send price list and circular to Cooper, Jones \& Cadbury, Philadelphia.
Business Opening. For Sale-Lease, machinery, etc., of a met-al-perforating and gas-burner business, long established, in this city. Sev-
eral valuable patents go with the business. Apply to C. Sullivan, admineral valuable patents go with the business.
istrator, 119 Broadway, New York, Room 19 .
Wanted-Partner with capital to help patent and bring out two inventions:-Heater for Feed-water to Boil
Driving Pulleys. Address Box 238, Tidioute, Pa.
Koch's Patent on shelving for stores is offered for sale-entire or State Rights. See illustrated description, Vol. XXI. No. 14, Scientific.
American, for Darticulars. Address Wm. \& Geo. Koch, Cass Postofice, Pa. Wanted-A set of the best new machinery for converting standing trees into short, split $₫$ rewood. W. H. H. Green, Jackson, Miss For Machine for cutting green corn for canning or drying, address F. Lewis or Isaac McLellan, Gorham, Mc.
To Manufacturers-For sale, a new 3 -story stone building $60-\mathrm{ft}$. by 30 -ft.. with never-failing water-power. Facilities for shipping unsur-
passed. Inquire of F. A. Sinclair, Mottville, Onondaga Co., N. Y. Clothes Wringers of all kinds repaired or taken in part pay for the "Universal," which is
32 Courtlandt st., New York.
Wanted-Manager.-Wanted immediately, a manager for a Tube Works, Must understand the business thoroughly, and be capable
of managing a large number of employees. References will be required. of managing a large number of employ ees. References will be required.
Address, stating where last employ ed. Lock Box 142, Pittsburgl, Pa.
Hot Pressed Wrought Iron Nuts, of all sizes, manufactured For Sale-Cotton Planter.-The entire right of the King Cotton Planter-the only successful in use. Have been worked since the war, and
given universal satisfaction. The machine is isimple, strong, and can be given universal satisfaction. The machine is simple, strong, and can be bullt chcaply. Willsellat a low igure. Reason for disposing of it is want of
time to give it proper attention. Address S. N. Brown \& Co., Dayton, o. Vols., Nos., and Sets of Scientific American for sale. Address Theo. Tusch, No. ${ }^{7} 7$ Park Row, New York city.
Cold Rolled-Shafting,piston rods,pump rods,Collins pat.double compression couplings,manufactured by Jones \& Laughlins, Pittsburgh,Pa.
Automatic Lathes, for spools and tassel molds, made by H. H. Frary, Jonesville, Vt.
It you want the real oak-tanned leather-belting, C. W. Arny manufactures it. See aclvertisement.
Peck's patent drop press. For circulars, address the sole manufacturers, Milo Peck \& Co., New Haven, Ct.
Wanted-A contract for the manufacture of specialties, either liardware or tools. C. N. Trump, Machinist, Portchester, N. Y.
Man'f'rs of grain-cleaning machinery and others can have sheet zinc perforated at 2 c . per sq. ft. R. Aitchison \& Coo., 845 State st., Chicago. Wanted-To communicate with any party who has a practical
knowledge of building and running a powder mill. Address "W," P. 0. knowledge of building and running a powder mill. Address "W," P. o.
Box 5,692, New York city.
Send for a circular on the uses of Soluble Glass, or Silicates of Soda and Potash,fire and water-proof. Manufactured by L. \& J. W. Feuch-
twanger, Chemists and Drug Importers, 55 Cedar st., New York. S. S.Pollard's celebrated Mill Picks,187 Raymond st.,Brooklyn. Mill-stone dressing diamond machine, simple, effective, durable Also, Glazier's diamonds. John Dickinson, 64 Nassau st., New York. Leschot's Patent Diamond-pointed Steam Drills save, on the average, fifty per cent of the cost of rock drilling. Manufactured only by
Severance \& Holt, 16 Wall st., New York. For solid wrought-iron beams, etc., see advertisement. Address Union Iron Millc, Pittsburgh, Pa., for lithograph, etc.
Machinists, boiler makers, tinners, and workers of sheet metals read advertisement of the Parker Power Presses.
Diamond carbon, formed into wedge or other shapes for pointing and edging tools or cutters for drilling and working stone, etc. Send
stamp forcircular. John Dickinson, 64 Nassau st., New York. For sale by State or County the PatentRight tor the best

## ivator in use. For terms address Isaiah Henton, Shelbyville, Ill.

## Inventions Patented in England by Americans.

PROVISIONAL PROTECTION FOR SIX MONTHS.







## Busuvers to $\mathfrak{C o r r e s p o n d e n t s}$.



J. R. M., of Kansas.-To find the flow of water through a 2.inch orifce under a head of twenty-five feet, you must irst determine
the velocity of the flow per second, and multiply this by the area of the the velocity of the flow per second, and multiply this by the area of the
aperture. You will then have the theoreticalliow per second, although aperture. You will then have the theoreticalfow per second, although
this is subject to some variations consequent upon the shape of the aperture, and other consideliations which must be taken into account. As
turn
suming that the aperture is round and the diameter two inches, the ve suming that the apcrture is round and the diameter two inches, the ve-
locity would be forty feet per second. The area of the portis $3 \cdot 14$ square inches, which, multipledinto the velocty per second in inches, will give the amount theoretically discharged in cubic inches, or $1507 \cdot 20$ cubic inches per second. Two thirds this will be the actual flove, or 10048 cubi inches per second, equal to 1.66 horse.power. To utilize this power eco-
nomically we advise the employment of a small turbine. A good work for you to get on such subjects is" Silliman's Physics."
G. B. A., of Ohio.-Cotton cloth may be rendered nearly fire proof by steeping it in a solution of alum and letting it dry. A better pro
cess is to starch it with starch mixed with phosphate of ammonia, a little more by weight of the salt than of the starch. Grind the dry starch and the salt together in a mortar, and then prepare the starch with the mix ture in the usnal way. After starching the cloth with this preparation,
it stiould berolled up in a dry cloth, and allowed to remain till nearly dry, and then ironed, using a little white wax to prevent the sticking of the iron.
H. B., of Tenn.-It takes just as much weight to pull down a balloon as it will carry up, and it is one of the most uneconomical of maof transportation are practicable. A balloon might be made to work in the manner you specify, and from the novelty of the thing passenger might be aurroads a rail placed on atie without a chair, would soon be jammed down into the wood under heavy work. You should see and talk with some experienced railroad engineer.
J. F. J., of N. Y.-There is no doubt that the diving dres used by divers in submarine work, would have enabled people to have
descended into the Avondale coal mine without danger of suffocation but the dress is too weighty to be used in work unless partly sustained by the buoyant power of water. Besides the walls of a coal mine are
very different things from water walls, and flexible pipes would stand a poor chance of maintaining their integrity in being sawed across their harp angles.
G. L. B., of Mass.-The products of the combustion of all hy drocarbon oils are carbonic acid and $\kappa$ atel. The carbonic acid is formed
by the chemical union of the carbon in the oil with the oxygen of the air by the chemical union of the carbon in the oil with the oxygen of the air,
and the water is formed by the union of the hydrogen in the oil with the oxygen of the air. Ordinarily, the water, being •onverted by the heat into steam, escapes notice; but when a cold body, as a piece of iron, is
held for a moment in the flamc it condenses this steam and the water be held for a moment in the flame it condenses this steam
comes visible. The theory of your friend is all wrong.
C. P. S. W., of N. C.-The white earth you send us is silicious lime, resting from the remains of minute diatoms. Under the micros-
cope the shells of the diatoms, covered with beautiful and delicate lines, cope the shells of the diatoms, covered with beautiful and delicate lines,
are distinctly visible. We can have a sketch made of some of these shells, if you desire at a charge of \$5. The earth will probably be usefu
G., of Tenn.-The recipe for the hair composed of oxide ot bismuth, spermaceti, and lard, recommended to you, will be as harmless as any other grease plaster provided the oxide of bismuth does not con
tain arsenic, with which it often is found mixed. As a hair renewer it is no better than barn yard manure or roadside mud.
J. S. C., of Me.-The sectional area of the horizontal flue leading from your boiler to the chimney, ought to be twenty-two inches in
diameter instead of sixteen. No advantage would result from making the flues of chimneys taper towards the top. Horizontal flues ought to have from one
A. W., of N. Y.-We believe a fan to be a very uneconomical method of conveying the sawdust shavings, etc., from a mill to a fre
room and cannot therefore advise it. We infer this from general princi room and cannot therefore advise it. We infer this from general princl
ples, as we have not seen a fan used for that purpose. Weare confident ples, as we have not seen a fan used for that purpose. We apl
however, that you will do better with the drag hitherto employed.
. R. R., of Md.-We think salt as good as anything to pack eggs in for winter use. They should be licptin a dry cool room but no where they will freeze, and the package should be turn
prevent the eggs from setting to one side of the shell.
. L. R.-Nothing yet discovered is more effectual in retaining heat in vessels than thick coatings of loose felt. You can take a use
ful lesson from the Norwegian cooking apparatus, illustrated and de ful lesson firm the Norwegian cooking appara
scribed on page 16t, current volume,of this paper
S. S., of Conn.-You can use screws in making the model The mineral you send appears to me mica schist, containing minute gar
net specimens. J. H. Keine.-We advise the use of plumbago (black lead) W. E. E., of R. I.-Etherial phosphorus, so-called, is a simple sofution of phosphorus in ether
G. G. W., of Pa.-The information you seek will shortly appear in our columns.

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Onder this headtng we shall publish weekly notes of some of themore prom inent home and foreign patents.

Combined Cotron and Corn Planter.-A. H. Wootton, Bartow, Ga.This invention has for its object to furnish a simple, convenient, and efiec tive machine, which shallbe so constructed and arranged that it may be
easily ad justed for use, for planting cotton seed or corn, as may be desired. Fruit Jar.-J. M. W. Kitchen, Brooklyn, N. Y.-This invention has for its object to improve the construction of fruit or preserve jars, so as $t$
make them simpler in construction, and more convenient, reliable, and e fective in use.
Currx Comb.-John M. Baker, Marshfield, ohio--This invention has for
its object to improve the construction of curry combs, so that when the
ront teeth havebecome worn, the comb-plate may be reversed or turned
alf way around, causing the rear teeth to become the front ones, enabling the curry comb to be used much longer than it otherwise could be.
Corn Harvestrr.- John McLeish, Chicago, Ill.-This invention has for Its object to furnish a simple, convenient, and effective machine, by mean of which the cornstalksmay be cut, the ears separated from the stalks and bunches upon the ground.
Revolvina Plow.-Wm. J. Dawson, Brookfield, Mo.-This invention has for its object to furnish a simple, convenient, and cffective machine, by
means of which cultivated land may be preparedfor the reception of the seed thoroughly and well, and which may be operated with a comparativel light draft.
Fireplace Heater.-R.D. McDonald, Jersey City, N. J.-This invention has for its object to furnish an improved open grate fireplace heater,
which shall be so constructed and arranged as to utilize the hich shanc be so constructed and arranged as to utilize the heat tha vantages of a stove and open fire.
Churning Machine.-Samuel D. Lucas, Winterpoch, Va.--This invention has for its object to furnish a simple and convenient churning apparatus,
by means of which one or more churns may be operated at the same time, ringing the butterin a very short time and with a comparatively smal mou
SIckle Grinder.-Henry Millard, York, N. Y.-This invention has for its
bject tofurnish an improved machinefor object tofurnish an improved machinefor grinding, mowing, and reaping
machine cutters, which shall be simple in construction, easily operated, and so arranged that the cuttersm a be ground all the way from point and so
heel.

Revolving Dovah Mixer.-Thomas Holmes, Williamsburgh, n. Y.-This Nention has for its object to improve the construction of the improved 1,335 , so as to make it simpler and less expensive in construction whil doing its work equally well.
Culetivator.- Isaac J. Morrow, Everton, Ind.-This invention has for its object to furnish an improved cultivator, which shall be so constructcd and eni ently controlled and regulated.
Hay and Grain Elevator.-John Dennis, Oswego, N. Y.-This i vention has for its object to furnish an improved apparatus, by means of
which an entire load of hay or grain may be raised to the upper part of arn at one operation, thereby saving the labor and time required when spitched up or raised by the forkfull
Combined Sofa and bed.-Wm. H. Schwalbe, New York city.-This in vention has for its object to improve the construction of combined sof a and beds, so as to make them more convenient in use, and so as to bette
dapt them for use in the various places in which they may be required.
Spring for Wagon Tongues.-George Alexander, Romney, Ind.-This nvention has for its object to furnish an improved attachment for the fore part of a wagon gearing, by means of which the tongue may be supported
at a greater or less elevation, as desired, so as to relieve the horses' necks oom the weight of the tongue, and in a great measure p rotect the e thrashing of the tongue wen the weels strike an obstruction
Coffeepor.-Hermann von Holten, Hoboken, N. J.-This invention has or its object to furnish an improved coffeepot, which shall be so con ment containing the ground co ee, which water extracts the strengti rom the coffee and flows thence into another compartment whence it is poured out for use.
Process for Preserving Egas.-John Longmaid, New Yorkcity.-This or marketand use
Sewing Machine.-M. C. Hawkins, Edinboro', Pa.-This invention con Sists in a novelmanner of connecting the upper, or needle, with the lower. er of arranging and operating the take-up bar, and of combining it with the needle bar, so that it will operate in conjunction with the same.
Rocing Carriage.-A. Armando, New York city.-This invention r lates to a new carriage, more particularly intended for children, and so con
structed that it may be propelled by rocking motion, and that it will be ocked when propelled by other means.
Raleroad Station Indicator.-A. C. Rodgers, Fort Washington, Pa.This invention relates to a new apparatus for displaying, within railroad cars, the name of the station which the car is approaching,or at which it ha
arrived. The invention consists of a system of levers and toothed wheels by which intermittent rotary motion, in either directlon, can be inpparted to a drum, around which a belt or chain containing the names of the sta tions is placed. The apparatus is set in motion by a stop arranged on th Sack - Josediking a lever suspended from the car.
Safe.-Joseph P. White, Savannah, Ga.-This invention consists in con structing the safe of an inner thick and strong shell of metal, and an exte rior thin shell made of chilled iron, and having on its interior surface flint,
emery, or any other substance which in drilling will generate sparks of fre to explode powaer, with which a space between the two shells is to be filled so as to blow off the outer shell, to create alarmand to disable the burglars.
Water Wheex.-W. E. Hill, Renovo, Pa.-This invention consists in an
mproved arrangement of buckets, designed to cause both a direct and re improved arrangement of buckets, designed to cause both a direct and re acting application of the water; that portion of the buckets designed fo the reacting application of the water being made adjustable by the action
of springs to vary the discharge orifices, as the volume of water or the resistance of the wheel changes. It also consists in an improved arrangement of the gates, and also in an arrangement for packing the joints be ween the wheel and thescroll.
Corron Press.-C. J. Beasely, Petersburg, Va.-This invention relates to improvements in cotton presses, having for its object an improved arrange ment of means whereby the follower may be worked, both up and down,
by the same operating lever, working in the same way ; also a simple ar y the same operating lever, working in the same way; also a simple ar
rangement for varying the leverage, as the force required is greater or less also an improved arrangement of the follower to facilitate filling the case Railroad Car.-Perry Prettyman, Paradise Spring Farm, Oregon.-This invention relates to improvements in railroad cars, the object of which is
to prevent them from running or being thrown oft the track from any cause It consists in the application to the car trucks of auxiliary axles and wheel so arranged that the said wheels will be suspended between an in ward pro jecting portion or flange of the top of the rail, and a corresponding wident its action on the auxiliary wheels to hold the cars from running off and the lower flange serving forthe track of the said auxiliary wheels, which re eive and support the cars of the main axle brake.
Oprrating Churn Daskrr.-William Kegg, Lassellsville, N. Y.-This in vention relates to an improvement in the method of operating the dasher of butter churns of the old style, or where the dasher is attached to a rod
or staff, and given a vertical reciprocating motion by hand, or by means of or staff, and given a vertica
Self-Winding Clọthes-line Machine.-W. A. Coventry, Paterson J.-This invention relates to a new and useful improvement in an appa Self.Closing Faucet.-A. Brinckmann,New York city.-This invention elates to a new faucet for water pipes and other purposes, which is to be self closing, so that no liquid can be lost by aceidentally leaving the faucet
open. The invention consists in attaching a weighted lever to the spigot open. The invention consists in attaching a weighted lever to the spigot
f the faucet which lever willalways automatically draw the faucetclosed of the faucet which lever willalways automatically draw the fa
and which will also serve as a handle for operating the faucet.
Horse Power.-C. L. Drury, Rockingham, Vt.-This invention relates to
new horse power of that class in which the animal moves on an inclined plane or disk, and the invention consists in the arrangement of devices for adjusting the position of said wheel and in the application of adjustable

