pede to run on one rail of a railroad, and thinks it can be propelled at a rate of a hundred miles an hour.
Professor "Ab" Brady, of Hanlon's, announces that the challenge of Fred. Hanlon will be kept open only one week longer, and it not then accepted Fred. will claim the championship.
It is stated that a velocipede clock has been invented, having numbered pins to correspond with the numbers of the velocipedes used in the schools and halls. These pins are stuck in holes drilled in the face of the clock, and prevent disagreements about time, as they indicate exactly when the time for which a machine taken has expired, and thus provide against slips of memory said to be common among velocipede learners.

## Coditotial summary.

Broadway Ramroad.-We had occasion a few days since to visit Albany, in reference to some matters pending before the Legislature, affecting the interests of our citizens, and we are obliged to confess that the atmosphere about the legislative halls was anything but wholesome. It was commonly believed that schemes of the most villainous character were "put up" and parceled out among members to secure their votes. The proposition of Mr. A. T. Stewart, of this city, offering to give $\$ 2,000,000$ for the franchise of the " Broadway Surface Railroad," was deliberately voted down in the Senate -that body evincing a determined purpose to rush the bill through, regardless of the rights and interests of citizens and property owners. Governor Hoffman, however, has put a check upon these corrupt proceedings by vetoing sertain railroad bills, and showing by able arguments that the fran
chises of this city are too valuable to be voted away without affording our heavily taxed citizens some remuneration. We honor the Governor for his high and statesmanlike action The pcople will sustain him iñ the position he has taken.
Yeast for Hot Climates.-Morgan's Trade Journal gives the following recipe for yeast adapted to hot climates: Boil two ounces of the best hops in four quarts of water for half
an hour; strain it, and let the liquor cool down to new milk an hour; strain it, and let the liquor cool down to new milk
warmth. Then put in a small handful of salt and half a pound of sugar (brown); beat up one pound of the best flour with some of the liquor, and mix all well together. The third day add three pounds of potatoes boiled and mashed, and let it stand until the next day. Then strain, and it is ready for use. Stir frequently while mang, and kзep near a fire Before using, stir well ; it will keep two or three months in a
cool place. I kept this two months in the cellar, where cool place. I kept this two months in the cellar, where
the thermometer ranged between 90 and 104 degrees. This yeast is very strong; half the usual quantity necessary for a baking is sufficient.
Prescribing in Ceeap Periodicals.-A most dangerous practice prevails of pullishing in some of the cheap literature of the day various receipts for the cure of minor ailments, and it is one that is certainly upon the increase. Many of the prescriptions so given are absurd, and even dangerous; and this is not to be wondered at if we consider that the writer is often very deficient in all real knowledge of medicine, and that he is assisted by the errors of the printer, to whom the symbols of quantities are so many hieroglyphics. Our atten tion has been called to the following prescription, for instance : "Syr. of poppies, one ounce and a half; syr. of squills, half an ounce; of tincture of digitalis, thirty drops; a teaspoonful to be given to a child frequently." We can quite imagine a fractious baby being dosed into the effectual quietness of death by such a mixture.-Lancet.
Charged Silk.-It has recently been found that what is called charged silk, is very liable to spontaneous combustion This article, some of our readers are aware, consists of silk, which, after liaving been exposed to the operations of bleach ing, cleansing, etc., and losing considerable weight, is brought back to its original condition by the addition of certain astrin gents, such as catcchu, gall nuts, and various salts, especially the sulphate of iron, by which means an increase in weight from one to two or three hundred per cent is sometimes effected. When dried, at about 212 or 225 degrees, this silk has been known to take fire spontaneously, as soon as the air had access to it. The result appeared due to the rapid absorption of moisture and an attendant oxidation.

False diamonds always contain silicon. Their true charac ter may be determined by putting them into a lead or plati num crucible with pulverized fluor spar, and pouring thereon sulphuric acid. The hydrofluoric acid generated by the reac tion will corrode or wholly destroy the imitation, while a genuine diamond will be totally uninjured. The experimen should be performed in the open air or under a hood, as th fumes of the gas are highly deleterious. Theoperator should keep at a distance until the reaction has ceased, to avoid in haling the poisonous gas. He should be careful also to avoi getting the hydrofluoric acid on his hands, as otherwise they may be severely injured.
Curious Production of Coid.-Dr. Phipson has recently discovered that an intense degree of cold is produced by dis solving sulphocyanate of ammonium in water. Many salts, especially salts of ammonia, lower the temperature of water while dissolving ; but, according to Dr. Phipson, no compound produces this effect in so marvelous a manner as sulphocyanate of ammonium. In one experiment, 35 grammes of this salt, dissolved rapidly in 35 cubic centimeters of water at 23 degrees Centigrade, caused the thermometer to descend in a few seconds to -10 degrees Centigrade. The moisture of the atmosphere instantly con

Hop Stems as a Material for Paper.-A Brussels cor. respondent of the Organe de Mons, a Belgian paper, says a gentleman from Marseilles, traveling through the country last autumn, purchased large quantities of a valueless sub stance which farmers were in the habit of burning in heaps to get rid of it, and has succeeded in makingan excellent, strong, pliable paper, the most important qualification of which is that it costs a mere trifle. A capitalist has joined him, and a large factory is now being erected to make paper from this substance, which is nothing more or less than the old hop stems after the crop has been gathered.
New Method of Pile Driving.-At a recent meeting of the Franklin Institute, a new method of driving piles was described. It substitutes gunpowder for steam in working the drop weight. A charge of powder is used to elevate the : weight, and another charge throws it down again with greater force than it would acquire by falling alone. Ordinary musket charges are said to be sufficient to work a four hundred pound hammer in this way, and the strokes are made with greater rapidity than in the old method:

Hon. Elisha Foote retires from the office of Commissioner of Patents enjoying the respect and confidence of all who know him. He was an upright, faithful Commissioner, and had already cleared off a portion of the obloquy that attached to the office. Had he been permitted to remain we have no doubt that the character of the office under his ad. ministration-would have greatly improved. Judge Foote was an honest official, and escapes from political life without a stain upon his honorable character.

Death to Croton Bugs and Roaches.-The Journal of Applied Chemistry, gives the following remedy against croton bags and cockroaches: Boil one ounce of poke root in one pint of water until the strength is extracted; mix the decoction with molasses and spread it in plates in the kitchen or other apartments which are infested by these insects. All that have partaken of this luxury during the night will be found " organic remains" the next morning.
To Restore Faded Writing.-When writing by common ink has become faded by age so as to be nearly or quite illegible, it may be restored to its original hue by moistening it with a camel's hair pencil or feather dipped in tincture of galls, or a solution of ferro-cyanide of potassium, slightly acidulated with hydrochloric acid. Either of these washes acidulated with hydrochloric acid. Either of these washes
should be very carefully applied, so that the ink may not spread.
Elderberry Ink.-A correspondent says: 'I write these lines with ink made of elderberries. My mode of making it is as follows: one-half gallon of juice of elderberries, as described in your paper; 1 ounce copperas, 2 drams alum, 20 scribed in your paper; 1 ounce copperas, 2 drams alum, 20
drops creosote dissolved in a small quantity of alcohol. The ink kept the violet color several years, now it has a brownish appearance. It makes a fair copy.

A Pittsburgh firm have recently made a steel roller for roll ing metals at the Philadelphia mint, which, after a test of sev eral weeks, has been pronounced superior to the Prussian. It is said to have been hardened by a new process, discovered by the manufacturers. Another roller has been ordered of the same firm for the same mint, to be used in rolling nickel.

OnE of the most forcible sayingsthat has ever emanated from the pen of Horace Greeley, is the following : "The darkest day in any man's earthly career is that wherein he fancies that there is some easier way of gaining a dollar than by squarely earning it."
PATENT CASES IN COURT.
THE ELLIPTICAL SOSPENDER CASE.


The Towles suspender is illustrated on page 56, Vol. XIX, cientific American.


MANUFACTURING, MINING, aND RAILROAD ITEM
manufacturing in Rhode island.-The Boston Commercial Bulletin says that the region including Woonsocket and vicinity-Cumberland,
mithseld, Blackstone, and Bellingham, has seventeen cotton mills, employ ing 3,500 hands, running 207,000 spindles, 4,030 looms, using 10000,000 pounds of cotton, and making $40,000,000$ yards of cloth per annum ; eight woolen mills employing 2.050 hands, running 114 sets of cards an $\mathbf{\alpha} 450$ looms, using $5,300,000$ pounds of wool. and making 2,900,000 yards of fancy cassimere per annum Other cotton mills, which will have 55,000 spindles, are in process of
construction. Just beyond the limit of three miles from Woonsocket are construction. Just beyond the limit of three miles from Woonsocket are
two more cotton mills with 30,000 spindles, and a woolen mill with 19 sets otherbranches of manufacture are represented in this region by a rubber actory, which employs 150 hands and produces $\$ 500.000$ worth of goods an nually, machine shops, founderies, one boiler shop, one scythe shop, two angractories of agricultural implements, one glue factory, two roof facto ries, one bobbin, one shuttle, one worsted mill, one tape mill, four or five
sash and blind shops, contractors and builders, etc. The mills now in operation in the White Pine silver districts are the stamps, at Silver Springs ; the White Pine Silver Mining Company's ten stamps, and Felton's five stamps, at Hamilton. A thirty-stanip mill is being erected to crush ores from the Aurora mine. A twenty-stamp mill is being removed from Smoky Valley, and three other mills, numbering about fifty tamps, are being brought from Virginia City. But there is work for five times these one
reducing ores.
Senator Sprague, of Rhode Island, who is the largest cotton manufacturer In the United States, having 10,000 hands in his employ, says that the busi soon a change for the better, he predicts that the cotton fastories will be suspended.
An Indiana speculator went to Chicago in the early part of the past winter An harvested 20,000 tuns of ice. During the panic among the ice dcalers in ome. Since tharm weather he sold hisstockat $\$ 17.000$ prost and went the cold weather and the gathering of a full supply.
The Wamsutta mills corporation at New Bedford, Mass., paid over $\$ 30,000$ monthly internal revenue taxes in 1868 .
A Fitchburg, Mass., manufacturer of bird traps, recently received a single raer for 50,000 .
A passenger car for the Erie Ralload, to cost $\$ 60,000$, is builling in Jer elegant car in the world.
It is said that more cotton will be planted in Texas this year than in any ear since the war.
A letterfrom an old Nevadaminer, now in Japan, says that the Japancse islands contain as rich gold and silver mines as any in the world, but the policy of the government represses their proper development.
St. Louis has forty-three miles of street railroad, ten miles of Nicolson undred miles of sewer an
Nevada boasts of stillanothermining district 125 miles south of White The Warren Thread Company of Worcester, Mass, was inaugurated by he late Hon.Ichabod Washburn. The present capacity is 1,200 dozen spool daily which will shortly be doubled
The work on the Missouri river bridge at, St. Louis, is progressing
avorably. The engineers expect soon to commence work on the center pier.
A large cotton seed oil mill is erecting at Mobile.

## Answers ta correporthes. <br>  aress correspondents by mail. <br>  u hen void for as a ness and Personal." <br> S. S. G., of Mass.-We know of no recipe for preventing damp

 woods frovaluable.
J. M. B.. of Mass.-The most fusible alloy with which we are acquainted is made of 8 parts of lead, 15 parts bismuth, 4 of tin , and 3 of
cadmium. It is called "Woods metal," and is wo think patented cadmium. It is called "Woods metal," and is wo think
melto at 140 degrees Fah. and has a specific gravity of $9 \cdot 4$.
F. G. D., of Ill.-Two theories of the origin of tho earth's magnetism have prevailed. The older, that of Hansteen, conceives the earth's center. It is now claimed that the ;crust of the earth and not it interior is the seat of terrestrial magnetism. To account for the pointing of the magnetic needle to the north, would be to assign a cause for the attraction, a positive pole for the negative pole of a magnet. This has never been determined.
P. R., of ———If you will refer to page 20, Vol. XIX, Scientific American, you will find your question in relation to apparent va-
riation between position of crank and piston of an engine fully answered, riation between position of cra
and illustrated by a diagram.
J. P., of Ontario.-Securing belt splices by shoe pegs is not ob jectionable when rivets are not at hand; we have frequently practiced it
with as good results as when sewed with lace leather. In "butting" or with as good results as when sewed with lace leather. In "butting" or meeting belts the crossings of the lacings should be on the outside of th
W. H. P., of N. Y.-Case hardening to be quickly performed is done by the use of prussiate of potash. This is powdered and spread
upon the surface of the piece of iron to be harclened, after the iron is upon the surface of the piece of iron to be harclened, after the iron is
heated to a bright red. It almost instantly fuxes or flows over the face, and when the iron is cooled to a dull red it is plunged into cold wa ter. Some prefer a mixture of prussiate of potash 3 parts, sal ammoniac 1 part; or prussiate 1 part, sal ammoniac 2 parts, and finely powdered bon dust (unburned) 2 parts. The application is the same in each case. Prop er case hardening, when a deep coating of steel is desired, is done by packing the article to be hardened in an iron box with horn, hoof, bone
dust, shreds of leather or raw hide, or either of these, and heated to red heat, for from one to three hours, then plunged in water.
D. S., of Minn.-Common yellow brass for turning may be made of copper2 zinc 1. For heavy work, tin, copper, and zinc are used
in the proportions of tin 15 , copper 100 , and zinc 15 , or tin 13 , copper 112 in the pro
zinc 1.
J. G. S., of Va.-The magnetic meridian does not correspond with the gevgraphical meridian, except in very few places. It also is sub ject to variations. The magnetic needle is also subject io so many varia
tions that an attempt to establish the true meridian ly its use, would cause you considerable trouble. You can get it near enough for your pur pose, byallowing the suu to shine through a vertical slit at noon when the sun is neither fast nor slow of clock, provided you can take time from a clock which is right with the sun or varies from it by a innown rate. (is you may get it quite accurately by describing a circle on a level surfic and placing a vertical wire, seven or eight inches long, in the cente
Through the top of the wire should be drilled a emanl hole to permit il
sun to shine through. The beam of light passing through the hole will
cross the circle once before noon and once in the afternoon. Watch when it crosses the circle in the morning, and mark the point of intersection Repeat the operation in the afternoon. The points of intersection willie at equaldistancesfrom the true meridian. Join the two points by a line, the center of the vertical pinwill lie on the meridian. It is better to draw several concentric circles and perform the same operation with each to se cure accuracy. Theyshould be so drawn that the beam will cross then
between the hours of 9 and 12 in the morning. The best time to do this is between the hours of 9 and 12 in the morning. The best time to do this is about the summer solstice. It will be snfliciently accurate for your pur the time they are manu factured. We do not think you will succeed in an nealing them in a stove oven.
E. P., of Ind.-We believe there are a number of makers and dealers in india-rubber tires for velocipedes, but we cannot remember Personal" column.

## gusirtes and tersant.

The Charge for Insertion under this head is One Dollar a Line. If the Notices
exceed Four Lines. One Dollar and a Half per line woil be charged.
Wanted.-A young man desires a situation to do repairs, keep the machinery in order, etc., in a hardware manufacturing establishment I think I can give satisfacion. Adesa J. .Link, Wroy, N. Y.
Velocipede- $\$ 150$ due-bill of $\$ 350$ piano for one. Address N. F. P., box 182, Paterson, N. J.

Wanted-A good 2d-hand milling machine. Address, stating price, D. E. Whiton, West Stafford, Ct.
New patent side-delivery harvester rake,for one or two-wheeled harvester, for sale. Address Ed. Stewart, Fort Madison, Iowa.
A practical engineer and machinist, sixteen years' experínce,
desires a position as master mechanic or foreman. Very besti of references
furnished. Address J. H. Lord, Box 773 , New York.
S. S. Pollard's celebrated Mill Picks, established 1837, 137 Raymond st., Brooklyn, N. Y
Stock, Stencil,\& Dies. E.H.Payn, Payn's Block, Burlington, Vt. Wanted-Crushed Asbestos. Address E. A. Morgan, care D. U. Morgan, No. 832 Market st., Philadelphia, Pa.

Wanted-A competent man to run a veneer machine. Address P. O. Box 6,166, New York city.

Patentees and inventors of really valuable improvements of general utility, who wish to dispo
Postoffice Box 8,322, New York.
Wanted-Steady employ for portable saw mill, 3 to 5 years' contract, by the thousand. Address Box 8. Albion, Erie Co., Pa.
Manufacturers of soft gray iron, suitable for small castings,
please send address to Miller \& Keirnan, Weedsport, N. Y.
J. D. Borin, Scottsboro, Ala., wants a first-rate Brick Machine. Pickering's Velocipede, 144 Greene st., New York.
A. B. Fisher,practical millwright,9 Ross st.,Brooklyn, E.D.,N.Y. $\$ 1$ per year.-Inventors and Manufacturer's Gazette. The cheapest, best, and most popular journal of the kind published. Send
stamp for specimen copy: Saitiel \& Co., Publishers, P. O. box 448, or 37 stamp for specimen co
Park Row, New York.
Machine for bending fellies-Patent for sale-the whole, or To velocipede makers-a thoroughly competent carriage maker, who has applied for two patents-good especially for ladies-two-wheelers
wants a situation. Has had large experience in first-class carriage shop as wants a situation. Has had large experience in first-class carriage shop as
foreman. Best city references. Address $G$. W., foreman 5492 d A venue. Patentee of Dunbar's packing please address Dormit A. Johnson, St. Louis, Mo., till May i0, then at Springfield, Mo.
Peck's patent drop press. Milo Peck \& Co., New Haven, Ct.
Wanted-Scientific American, First Series, Vols. 2, 3, 4, 5, and 6. Address W. Elliot Woodward, Boston Highlands, Mass.

Rights, or whole interest for sale-guide attachment for boring instruments. Address A. A., Postofice box 4769, New York,
Diamond carbon, formed into wedge or other shapes for point ing and edging tools or cutters for drilling and working stone, etc. Send stamp for circular. John Dickinson, 64 Nassau st., New York.
A milling machine tor sale, price $\$ 210$. Also, 5 -ft. floor drill lathe, price $\$ 75$. A
Burrville, Conn.
The new method for lighting street lamps! For illustrated circular, with letter from President Manhattan Gas Light Co., and Sup't of
Lamps N. Y. City. Address J. W. Bartlett, Patentee,569 Broad way, N.Y.
The Tanite Emery Wheel.-For circulars of this superior wheel, address " Tanite Co.," Stroudsburgh, Pa.
The manufacture and introduction of sheet and cast metal small wares is made a specialty by J. H. White, Newark, N. J.
The Magic Comb will color gray hair a permanent black or brown, Sent by mail for $\$ 125$. Address Wm. Patton, Treasurer Magic Comb Co., Springfield, Mass.
For coppered iron castings address J. H. White, Newark, N. J. W. J. T.-We think the patent asbestos roofing manufactured by H. W. Johns, of this city, is the best substitute for tin or slate. It is cheap and easily applied.
Tempered steel spiral springs. John Chatillon, 91 and 93 Cliff st., New York.
For solid wrought-iron beams, etc., see advertisement. Address Union Iron Mills, Pittsburgh, Pa., for lithograph, etc.
Machinists, boiler makers, tinners, and workers of sheet metals Mill-stone dressing diamond machine, simple, effective, durable. Also, Glazier's diamonds. John Dickinson, 64 Nassau st., New York.
Winans' boiler powder, N. Y., removes and prevents incrustations without injury or foaming; 12 years in use. Beware of imitations. The paper that meets the eye of all the leading manufacturers

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Under this heading we shall publish weekly notes at some of the more prom
inent home and foreign patents.
Sprina Scissors.-Albert Murdock, North Bridgewater, Mass.-Thisin vention has for its object to construct scissors which can be constantly they may be used on sewing machines for clippipg threads, and the likepur poses, without requiring the machine to be stopped, and also for other pur poses. The in vention consists in arranging on one blade, which is provided witharing handle, another bladewithout a handle and held open by spring.
Velocipede.-W.S. Hill, Manchester, N. H.-This invention relates to a new three-wheeled velocipede, which is so constructed, that it will, whe passing over uneven ground or when describinga curve,not lose its balance Saw Filer and Jornter.-C. G. Miller, Brattleborough, Vt.-This invenSAW FILER AND Jornter.-C. G. Miller, Brattleborough, Vt.-This inven
tion relates to a new apparatus for fling and jointing circular saws, and has for its object to produce an instrument, which can be adjusted to all kinds of saws in any suitable position, and for fles of any suitable length.
Corron Giry-R. W. Stough, Grifin, Ga.-This invention relates to an im proved arrangement of means for communicating a lateral movement to the
cotton, as it is fed up to the saws, in order to prodüce a more uniformac conton, as it is sfed up to the saws, in order to prodüce a more uniformac
tion of the saws thereon.
Karsow,-B. B. Williams, Laclede, Mo.-This invention is designed to
arrange harrows so that they may be readily folded into such a shape that arrange harrows so that they may be readily folded into such a shape that
they may be drawn over the ground, when it is required to remove them they may be drawn over the ground, when it is required to remove them
from one place of operation to another, without the teeth being in contact from one place of
with the ground.
Valves and Valve Springa, for Melodeons, organs, etc.-a. L swat, cherry Valley, N. Y.-This invention relates to improvements in
valves and the sprifgs employed for closing them, such as are used in melo. deanss, organs, and other similar instruments, designed to produce valve Fifich will close more tightly, and more durable and sensitive springs.
Carriage Coupling.-Henry J. Pringle and William Pringle, Columbus, Ohio.-This in vention has for its object to furnish an improved coupling fo
connecting the forward axle to the reach, and other parts of the carriage which shall be simple in construction and rellable in operation.
Insect Destroyer.-Jacob Hinds, Hindsburg, N.Y.-This invention relates
to a new and useful composition for destroying insects on vines, trees, and hrubbery, and which composition, when used in connection with coal tar pine tar, is a speciffc against the ravages of the "wire worm."
Hand Truck for Saciing Grain and Moving the Same.-Wm. Brocklesby, Jr., Caledonia, Ohio.-The object of this in vention is to provide a
simple and efficient hand truck, whereby grain, or other analogous matter, may be sacked and transported to any part of a warehouse, mill, barn, or other building, with convenience and dispatch.
Wril Adger.-A. A. McMahen, Oxford, Miss.-The object of this invention is to provide a simple, and effective apparatus for boring wells and deep holes for other purposes.
Hovsehold Machine.-William W. Wilson, Geneva, Wis.-The object of this invention is to produce an improved household machine, by combining,
in the same machine, a washing machine and churn, and in so de. in the same machine, a washing machine and churn, and in so de-
vising the mechanism of the same that they can be operated separately or vising the mechanism of the same that the
together in a simple and effective manner.
together in a simple and effective manner.
Dumping Wagon and Car.- Thomas H. Gary, Bristol, Md.-The object fthisinvention is to simplify and improve the device allowed to me Janu ry 22d, 1869
PICEER.-A. H. Carroll, Baltimore, Md.-The object of this invention is to
construct the picker in such a manner that it will leep the rod more con. stantly and uniformly lubricated than heretofore, and will not spatter the oil upon the cloth.
Broom Head.-W. C. Spellman, Baltimore, Md.-The object of this invention is
the head.
adjustable breast Collar.-George w. Blaksley, Rockford, ill.-The object of this invention is to provide for public use a breast collar so structed as to be easier for the horse and to be adjustable in position.
Prcture and advertising Frame.-W. H. Sadler and J. M. Drysdale,
Baltimore, Md.-The object of this invention is to provide for public Baltimore, Md.-The object of this invention is to provide for public use, cheap, convenient, and ornamental device for holding and displaying pic tures, cards, or advertisements, and so constructed that at any time one or
more of the pictures, cards, etc., may be removed or introduced without more of the pictures, cards, etc., may be removed or introtuce without
disturbing the others, and without the necessity of taking the frame down from the wall, or removingits glass or back, while at all times its contents
aresecurely held, and cannot be tampered with by any one but the proaresecu
Self-abjusting Watch Key or Holding Tool.-John S. Birch, New
York York city.-The nature of this invention consists in so constructing a watch
key, or instrument for holding small objects, that it shall accommodate itkey, or instrument for holding small objects, that it shall accommodate it-
self to the size of the object held, holding it frmly and securely. This is self to the size of the object held, holding it firmly and securely. Thi; is
very important in most of the manipulations connected with watchwork andin manufacturing and repairing jewelry, and is especially important in the winding and setting of watch movements, the arbors of which are
usmally dissimilar insize, and yet in all cases, from the delicacy of the usually dissimilar in size, and yet in all cases, from the del
mechanism requiring that the key should exactly fit the arbor
Clothes Dryer.-Louis Winterhalder and David Wilson, New York city -This invention relates to a new clothes dryer of that class in which a se ries of bars are pivoted to a frame in such manner that they can be folde art to form the dryer ortogether when not to be ased
Combined Washingiand Wringing Machine.-H. o. Reddish, Linden N. Y.-This invention has for its object to furnish an improved machine,
simple in construction, easily operated, and effective in operation, and simple in construction, easily operated, and effective in operation, and
which shall be so constructed and arranged that the clothes may be thoroughly washed, and, at the same time, wrung out so as to pass from the ma. chine in to the clothes bucket or other receptacle prepared to receive them ready to be hung out todry.
Seed Planter.-I. F. Herrin, San Antonio, Texas.-This invention has
for its object to furnish a simple, convenient, effective, and accurate ma chine, by means of which the planting may be readily done in exact check ow, and which will allow the dropping device to be instantly thrown into
or out of gear when desired. out of gear when desired
Cultivator.-James B. Sexton, Pella, lowa.-This invention has for its
object to improve the construction of the parts object to improve the construction of the parts of a cultivator, by means
of which the plow beams and draft are connected with the truck so as to make the plows readily adjustable, and so as to enable the draft to be readily adjusted, according to the comparative strength of the two horses.
Hat Shaping Machine.-George W. Gallagiere and E. W. Ruby, New
Milford, Conn.-This invention has for its Milford, Conn.-This invention has for its object to furnish a simple, con
venient, and effective machine for "curling " hats, which will do quickly accurately, and well, work that has heretofore been done only by hand.
Vise.-J.D. Beck, Liberty, Pa.-This invention has for its object to furnish an improved vise, which shall be so constructed and arranged
as to securely hold irregular, beveled, or plain work, and which shall, at the same time, be simple in construction and easily adjusted.
New York city for forcing Liquids from Close vessels.-J. L. Trea New York city.-This invention has for its object to furnish a simple, con
venient, and reliable apparatus, by means of which beer or other liquid maybe forced out of close casks, and raised to the desired position by the pressure of atmospheric air.
SLED BRAEE. - Samuel $W$.
its object to furnish an improved self-applying sled brake, which shall be
holding back,
lieves
Fanning Mills.-Harvey F. Siebert, Brady's Bend, Pa.-This invention hasforits object to improve the construction of fanning mills so as to make them more effective and reliable in operation.
Weather Strip.-E. Mears, Battle Ground, Ind.-This invention relates to a new weatherstrip for doors, said strip being so arranged that it will be
closed over the outer edge of the sill, and still alow closed over the outer edge of the sill, and still allow the door to be opened
to the inside. The invention consists in the use of a hing to the inside. The invention consists in the use of a hinged weather strip, provided with a spring in such manner, that it will, by the said spring, be
swung up, and out of the way of the sill whenever the do swung up, and out of the way of the sill whenever the door is open, but
when the door is closed, the weather strip strikes a stop provided on the door frame, and is thereby folded over the outer edge of the sill to securely close the crevice formed between the door and sill. Loce NUTs.-Almon Roff, Southport, Conn-The object of this invention is to so-arrange a system of nuts on screws or bolts, that when the said nuts have been adjusted on the screws, they cannot be displaced spontaneously
by jarring or other motion. The invention consists in the combination of by jarring or other motion. The invention consists in the combination of
set screws, with a right and left-hand nut, working on separate threads, or set screws, with a right and left-hand nut, working on separate threads, or
of onenut and one screw working in opposite directions for locking the nuts together when they are adjusted.
Vrlocipede.-John J. White, Philadelphia, Pa.-This inventionrelates to
new velocipede, which consists a new velocipede, which consists entirely of two wheels and their connecting axle, the axle supporting a frame in which the seat and driving gear
are arranged so that they can be conveniently operated. The wheels can are arranger so that they can be conveniently operated. The wheels can,
with this arrangement, be made very large to obtain great velocity, whole apparatus can be made light and convenient.
Cigar Machine--R. M. Cole, Burlington, Vt.-This invention has for its
object to construct a machine for rolling cigars in which both right and left-handed wrappers can be used, in which the cigar can both right and is being formed, and which can be retained in motion continuall When no tobacco is rolled init. The invention also consists in rolling the cigar within an endless apron, which is so held betweer suitable forms or molds that it imparts to the cigar the requisite shape. The apron is guided
over rollers, which impart continuous motion to it be shifted without straining and interfering witht, and of which some can Electric Organ Action.-Holborne L. Roosevelt, new of the apron. object of this invention is to apply electricity from a battery or other source to the operation of organs, so that the keys can be played at a suit able distance from the organ and without any difficulty. The invention consists in a novel manner of connecting the wires with the keys and pal-
lets, by dropping them into cups that are partly flled with mer lets, by dropping them into cups that are partly flled with mercury, the
wires on the keys being held a wayfrom the mercury by means of springs wires on the keys being held awayfrom the mercury by means of springs
as long as the keys are not touched. When, however, a key is derese this wire is dropped in the mercury, and a current thereby established by which two coils are charged, to cause them to attract an armature.
Breech-loading Pistol.-John McGoveren, New Tork city.-This inven
tion consists of an improved tion consists of an improved method of mantaining the barrel in its po-
sition in the stock, and of restoring it to the said position when displaced sition in the
for loading.
Nursing Table.-Jeremiah Larkin, Unionville, S. C.-This invention re lates to improvements in tables, to render them useful for sick persons, in helping themselves when unattended by nurses

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88,767.-Motive Power.-John B. Atwater, Chicago, Ill. Camb bedort, Mass.

Krout-cutting Machine.-W. K. Baylor and Con 88,770.-Gap, Bate.esville, Ind.
88,771.-Steam Engine Valve Gear.--Riley Bowers, Chillicothe, Ohio. 88,774- - AUtomatic Boiler Feeder.-Daniel L. F. Chase 88,775.-BaLING Press.-Peter K. Dederick, Greenbush, N. Y. 88,776.-Focding CHARR.-Carl Dieterich, Roslindale (West
 Waghinton. D. C. Trap.-Josiah W. Ells, Pittsburgh, Pa. Upper Marsh, Lambeth, and William Bryer Nation, No, Arthur Field R8,780. ETVIand; (said Nation assigns his right to said Fiedid),
CHINES.-H. W. Fuller Br ATOMTACHMENT FOR SEWING MA CHINss.-H. W. Fuller, Brooklyn, N. Y.
88, 781. ANCHOR.-J. Durenell Greene, Cambridge, assignor to
himself and Charles H. P. Plympton, Boston, Mass. 88,782. - Porm Charles H. P. Plympton, Boston, Mass. FENCE.-Frank Wroff, Indianapo 88,78, Ind. -Bolt Machine.-Moore Hardaway, St. Louis, Me. 88,784.-Lamp for Cooking Pdrroses.-Mary E. Hatch, Be
10it, Wis.
88,785.-Earth Scraper. - John Y. Herston, Warrick county Ind.
88,786. MANUFACTURE OF RALLS FOR RAILROADS.-Charles Hewitt,Hamilto township, N. J.
88,787.-SEEDER AND CULTVATOR.-E. W. Hewitt and Geo. 88,788.-CASTING TWEERS.-Wm. M. Johnston (assignor to himselfand DavidP. Estep), Pittsburgh, Pa.
88,789.- CARRIAGE JACK.-A. W. Keeler and Jacob Eckert,
Lafayette, N. Y. Lafayette, N. Y.
88,790.-Corn Shelier.-Elisha Kelley, Locust Grove, Ohio.
88,791-COMBINED KNob LATCH AND Lock-J. B. Kelley,
 88,793.-Hair Dye.-Joseph L.ory, Memphis, Tenn.
88,795.-Maciine For Mandfacturing Roofing Tile.88,Charies Messenger, Cleveland, ehio. Mills, Ravenna, Ohio. 88,797.-Sled Brake.-S. A. Mitchell, Alstead Center, N. H 88,798.-Plate for Artificial Teeth.-George Morrison Lockport. Ill.
88,799._METAL BIRD HobSE.- John Murdock, Jersey City,
N. J., assignor to John Savery's Sans, New York city.

