Predatory Chickens.
One Max Adeler describes an novel method he adopted for ridding his garden of a neighbor's chickens. We copy the
article from the London Garden, but we suspect it emanated article from the London Garden, but we suspect it emanated
from this side of the water, and we would not wonder if the from this side of the water, and we would not wonder if the
Danbury Nevos man was its author. It certainly reada like him ; but no matter whereit originated, the invention is made, and in Adeler's case it proved ueeful.
He says: "We had a good deal of trouble last summer with Pitman's chickens; as fast as we planted anything in our little garden, those chickens of Pitman's would creep through the fence, scratch out the seed, fill up, and go home. When the radish bed had been ravished in this manner for the fifth tinie, we complained to Pitman. He was not disposed to interfere. 'Adeler,' he said, 'I tell you it does 'em good; and it does them beds good to be raked over
by chickens. If I had radishes, give me chickens to scratch by chickens. If I had radishes, give me çhickena to scratch around them and eat up the worms. Radishes that haven't been scratched ain't worth a cent.' Then we climbed over hands. We procured half a peck of corn and two dozen amall fish hooks. Fastening the books each to a grain of corn, we tied wire to each hook. Then we scattered the whole of the corn on the radish bed, and fixed the ends of the wires to the biggest eky rocket we could get. The rocket stood in a frame about 10 yards away from the hooks. That very morning Pitman's chickens came over, and instantly began to devour the corn. We were ready; and as soon as it was evident that the hooks were all swallowed, we applied a match to the rocket. It is regarded as probable that ver proceeded toward the azure vault of hearen with ouch rapidity as those did. A fizz, a few ejaculatory cackles, puff of smoke, and Pitman's roosters and chickens were wishing around the celestial constellations without thei feathers, and in some doubt respecting the stability of earthly thinge. Pitman never knew what became of his fowls; but when we read in the paper next day that twenty lour underdone chickens, with fish hooks in their crawe, had been rained down by a hurricane in New Jersey, we felt certain that that sky rocket had done its duty.

## Gas Hght.-A verage Prices.

The following information, showing the average net price of gas throughout the United States, has been procured by the Washington, D. C., Gas Light Company

| 1. Maine. . . . . . . . . $\$ 3.87$ | 20. Mississippi. . . . . $\$ 5.25$ |
| :---: | :---: |
| 2. New Hampshire.. 3.96 | 21. Michigan.......... 3.43 |
| 3. Vermont. . . . . . . . . 4.80 | 22. Wisconsin......... 3.87 |
| 4. Massachusetts . . . . 3.86 | 23. Ohio . . . . . . . . . . . . 3.32 |
| 5. Rhode Island. .... 3.35 | 24. Indiana . . . . . . . . . . 3.54 |
| 6. Connecticut. . . . . . 4.03 | 25. Illinois............ 3.87 |
| 7. New York........ 3.88 | 26. Kentucky ......... 3.92 |
| 8. New Jersey. . . . . . 3.80 | 27. Tennesse日. . . . . . . . 4.06 |
| 9. Pennsylvania..... 3.46 | 28. Minnesota |
| 10. Delaware. . . . . . . 3.95 | 29. Iowa.............. 4.5 |
| 11. Maryland. . . . . . . . 3.59 | 30. Missouri. . . . . . . . . 3.95 |
| 12. Dist. of Columbia. 3.16 | 31. Arkansas. . . . . . . . 5.00 |
| 13. Virginia......... 3.89 | 32. Louisiana. . . . . . . . . 4.50 |
| 14. West Virginia. . . 3.11 | 33. Texas. ............ 5.75 |
| 15. North Carolina.... 6.67 | 34. Kansas. . . . . . . . . . 4.55 |
| 16. South Carolina. . . . 3.80 | 35. Colorado. . . . . . . . . 5.00 |
| 17. Georgia . . . . . . . . . 5.07 | 36. Utah.............. 4.00 |
| 18. Florida. . . . . . . . . . 8.00 | 37. California. ........ 6.11 |
| 19. Alabama. . . . . . . . 483 |  |
| Total average net price of ga | the United States. $\$$ \$4.32 $\frac{1}{2}$ |

## Proposed Statue to Daniel Webster

Gordon W. Burnham, a weslthy resident of this city roposes to erect in the Central Park, at his own expense, bronze statue of Massachusetts' late statesman, Daniel Webster. Mr. Burnham has a special taste for bronzes, and his residence on Fifth Avenue contains probably the choicest collection in the country, The Contral Park has already a handsome group (Eagles and Chamois) presented to it a number of years ago by Mr. Burnham.
The Park Commisaioners have, we understand, requested that a model of the statue be submitted to them before they will consent to set apart for it the conspicuous and appropri ate site on the Mall, suggested by the donor. The form of $\varepsilon$ renowned and representative Americen statesman, whose fame belonge to this country, deserves, we think, at least as prominent a position as that of Sir Walter Scott. It is to be hoped that Mr. Burnham's generous offer will not be with drawn through any difference of opinion as to where in our everywhere beautiful Park his gift is to be displayed. The people will appreciate it, and heartily thank him for it, no matter whether it be located (as it should be) on the Mall, o half hidden in the shrubbery in some by-path of the Ramble

Rope Cordage.-Recently a very interesting experiment was msde at Kirkaldy's Testing Works, Southwark street London, as to the relative strength of handspan yarn rope, machine yarn rope, and Russian yarn rope. Mr. Plim soll, M. P., Captain Bedford Pim, M. P., and others attend d the test, which lasted over three hours. There pieces of rope, each 10 feet long, being three of each of the bove classes. The ultimate stress or breaking strain of the Russian rope was 11,099 lbs. or 1,934 lbs. strength per fathom; machine rope, 11,527 lbs. or $2,155 \mathrm{lbs}$. per fathom ; handspan rope, $18,279 \mathrm{lbs}$. or $3,026 \mathrm{lbs}$. per fathom. The ropes were all of 5 inches circumference, and every piece broze clear of the rasteninge. The prices paid per cwt. were: Russian rope, $\$ 11 \cdot 75$; machine yarn rope, $\$ 11 \cdot 75$;handepun yarn rope, $\$ 11 \cdot 00$ all deacribed as best cordage and Lond cheaper by 75 cents per cwt.,and broke at the testing etrength of 7,180 lbs. over Russian, and 6,752 lbs. over machine made rope.

Onited States Circuit Conrt---District of New Jersey














## Dnited Staten Circuit Court---Southern District of New Fork.











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Improved Waste
Valve and Overfinw. coupled with a casting or T in The end or the pipe leadna to the basti al valve seat, and with its lower arm is conpled a plpe leading to the herger plipe, which is secured to a stand. Within the large nipe is placed
 Whtch is plac nd a rubberring to form the valve. By this construction, when
 will how of thrnugh the oame. When the plep is ralsed. opening the
aive, the water will now of throagh the newer plpes. having a wholly unobstructed passarn, in which there is nothing
dre against and tbus obstruct the outfiow.
Improved Mechnnism for Oderatink Punches, Shenrs, etc.
Cbarles H. Regnolds. Willamsburg, N. Y., ass'gnor to htmaelf and enry C. Richardson, of same place.-In this macbine. when the free end of a lever is moved to the rearward, "the arm of the lower jaw will be
moved downward and the arm of the upper jaw will be moved upward, moved downward and the arm of the upper jaw will be moved upward
bring'ngthe jaws together with immense power. An illustrated dencription of the apparatus will be found on page 102 of our current volume.

Improved Signal Light.
James C. McMallin, Chicago, III.-The oblect of this invention is to fur-
Joh a signallamp fer rallioad trains and other parposes, which indicate alsh a signal lamp fer rallioad trains and other parposes, which indicate thesuccessive appearance of the light thrown through lenses of dier
nt colors or sizes from one burner, the distance of the light to be deterIned by the gradual appearance and relative postition of the lights. The
avention consists of a slgnal lamp which is provided with one or more ubular arms, with reflectors and lenses of difforent colors at their ends, spread at suitable distance, andlighted by one common barner. A signal
lamp is provided with one or more tubular arms. At the distance of one, lamp is provided with one or more tubular arms. At the distance of one,
itw, or more feet, are a refiector and lens. The reflector is preferably placed under an angle of forty-Ave degrees to the axts of the arms, so that refected anderthe angle of incidence of the light. Lenses of different colors or sizes may be employed, and thereby the distance of the traln determined by the successl $v e$ appearance and position of the lenses. It has
been foond by practical teats that in a algnal lamp having red and whtte been foand by practical tests that In a algnal lamp having red and white
elght tnch lensesplaced at a distance of thirty-four Inches from each other, nothing bat the red light is shown at a distance of one and one fourth miles. At a distance of one mile, red is ahown with a rim or fringe of
white at that alde where the white lens is sitaated. At three quarters of a mile, red and whte are both shown dietinctly and separately; and at a dis-
tance of halt a mile a considerable space appeare between them. Any tance of half a mile a considerable space appears between them. Any
number of lences can be illuminated at the same burner if placed at the
ondi of the connecting arme.

Improved Children's Carriage.
Jullus Sues, Loutsville. Ky.-A child's carriage is supported on fron Wheels by curved sllis or bars and strong lateral springs, firmly bolted to rle of the front wheels. Byplacing the front part of the bodson oot only an up and down motlon, but also s rocking motion of the car tage is odtalned, and the elastlctity of thesamelncreased. The hind par
of the bedy is supported by two additional curved springs, of swan-necke shape, which are interposed between the usual elliptic supporting spring and the body. The front end of the spring is armly attached directly to he body of the carrlage, or to an intermedtate bracket-shaped casting. The rearpart of the spring is attached to the back of the body, near the
upper part thereof. The support of the :body by the springs is thereby Improved Sieizh
Jobn A. Selgfrid and Chester Bro. Borden. Seneca Falls, N. Y.-The knees nd the hub are cast in a single plece, and the hab fitt on the beam as an the knees and to the under side of the beam, so that they may bently dily detached from the beams. The hubs are made about the length of or nary wagon hubs, 8 that the wheels will fit on the beams in place of the hneers. The beams then becomeanles. The change
whem wheels to runners lis very readlly made.

Improved Stop Vaive.
Richards. Gllespie, New York elty. - Thits invention ts an twprovemen pon double seated valves, some of which are provided with a headed pla he principle of a togglejolnt. When a valve is forced down, a pin atrike the bottom of the case ard forces another pin up against the lower end of
he valve stem. As the valve stem moves further down, borh pton ar orced inward against the outer rollers, whtch force the middle roller utward, forcing the faces of the valve against the valve seats. The roll ans thus operate as a dou'le togrie font,pressing outward in lines at righ
agles with the valve stem. In ralsing or opening the valve, the firstmove ment of the valve stem removes the pressure of the pins from the rollers he pressure of the rollers from the parts of the valve, and the pressure o
he palve faces from the valve seats, so that the valve can be ralsed with he valve faces from the
out any friction betwe

Improved Reading and Copying Stand. securely hastened thereto. after belng placed on the projecting lagsat the lece moves in a central slot of the rack, and 18 also provided 7 ith plvoted
 lar arms with upward extending fasteners are applied along the lower part he book, and the fasteners then applled to hold the leaves till they ar racting in lacing in pos

Improved Carriage Wrench.
Henry Cutler, Ashland, Mass.-The adjusting handle consists of two The eccentric is roverned in position, as it is revolved, by a plvot, wher It enters a hole in the stock head. The jaws are levers, and the eccentric
operates on their upper ends, the fulcrums belng the pins. A spring be tween the Jaws keeps them spread apart; but when the eccentric is turned,
the outer ends of the jaws are forced toward each other to gripe and hold he outer ends of the Jaws are forced toward each other to gripe and hold
thenut. With this wrench a nut may be removed and replaced without henut. Whth thls wrench a
ouching lt with the fingers.
Improved Method of Retouching Photographic Negativess
Claude L. Lambert. Paris, France.-A large negative, after having been operly exposed,developed, ixed, and Anished, 18 covered on both side tha sheet of thin paper or other seml-transparent material capable of
retaining the coloring matter to be afterward employed. Wherevernecea ry, elther on the collodion $81 d e$ or on the reverse side, an impalpable gal noplantic powder, or other caely pulverted substance answering the ame purpose, Is applled with a stump. The effects of light and shade mas
hus be modifled. toned, or hightened, and such a high degree of fintsh Imnarted as will render anysubsequent retouchingof the postivepaper prin unnecessary, the sharpness of the lines belng restored by the ald of a lead
pencll. The negative, after thus belng treated, is placed in the pressure ramewith a sheet of ordinary sensitized paper, prepared elther with salts aflver or of chromtum, to obtain a perfect posittve. Should the lines of ve proof by frit partlally printing it in contact with the large negative, very thin glass between the negative and the paper.
Improved Seed Dropper.
Hermann Koeller, Camp Point, ill.-To two cross bars are attached runners and seed hoppers, to themlddle parts of which 18 secured a tongue.
A sllde recelves a rectprocating movement to drop the seed from the revolutions of gear wheels, and may be adjusted to a longer or shorter stroke. To one small gearwheel ls attached a wheel consisting of arms, the outer
ends of which are notched to recelve a chatn, and to the lower sideof which Is attached a ring to support the same. In uefng the machine, in coming dropped last to the ground, after dropplng the last hill before turning. for a mark. He then counts the links that lic crosswlse, and puts another opring ring in the link he wishes to begin to drop from, for a mark in startling. After turning around, the fanged chatn wheel should be set so that
themachinewill begin to drop at the marked link. This will bring the

Improved Combined Throttle and Governor Valve. obe used in connection with a governor for starting, stopping, or instantly changing the speed of a steam engine without the employment of ulfting belts or other mechanism.

Improved Bath Tub.
A so C. Brownell, Brooklyn, N. Y.-Th is tub frame is so constructed that A sheet metal lining
of the body of the tub.

Improved Combined Check and Martingale.
Leus Barron, Woodstoct, Vt.-The object of thls invention is to prowhich, by an easy adjustment, ta adapted to serve the purpose of a martin gale. It consists of a strap split into two other smaller straps, the single smaller strang by means of a ring to the checkor water hook, and the two connected by a silding loop on the face of the horse, and fastened to oppo aftesides of the bridle bit by means of detachable fastenings.

Improved Wheel.
Lewls $\mathbf{H}$. Rogers, South Avon, N. Y.-The object of this Invention is to provide a wheel for vehicles of such an elastlc construction as shall faclll-.
tate the easy movement of vehtcles, and which shall at once be strong, Inght, and durable. It consists of a metallichub having two be strong, threaded stems projecting radially from the same, to which are fastened small plates held to sald stems bya nut and washer, there belng between
the said washer and plate au elastlc pad. Sald plates are attached on each Ide of the stems to metallic spring spokes, and sald spokes securely fas tened to cllps that are riveted to a metallic felly. Sald felly is preferably
made with a concave periphery, and between the felly and the tyre ts placed Im of rubber or other elastic subatance.
willam C. Kay, Compo, Miss.-This invention relates to that class of wooden fences which are portable. It consiffs of but two essentlally dif. erent parts, the ralls and the improved connection for the same, whlch later conslsts of tw is symetricelly formed sectlons, made of inclined stakes,
o which are attached strips of stuit varging in length from about three est at the bottom to one foot at the top. Sald stakes cross each other at about elghteen Inches from the top, and are braced by a rall resting in the
fork formed thereby. Sald strips aresecurelyfastened at one end to the atake; and as they incline towardthe earth the strips of one stake cross
those of the other, forming locks thereby into which the ralle are placed.

