several chimneys at Aix in France, and was taken for an earthquake.

There are several theories in regard to meteors, but $t$ 'ne most plausible one is that they are small planets revo.iving around the sun in very elliptical orbits, and the, occa sionally they come so near the earth as to be drawn within the limits of the atmosphere, when they sre heated by the joint action of the condensation of che atmosphere and the checking of their velocity; that this heating causes them to throw off scales fro $\_\mathrm{n}$ the surface which fall to the ground, while the princ pal body keeps on in its swift flight. Sometimes the, heat becomes so great through the whole mass as to cause it to fly to pieces; one writer supposes, even. into fine dust. We hope, by the time of our next issue, to collect sufficient facts in regard to the meteor whir n recently passed over this city, to enable us to give, a pretty full account of it. It was one of the most remarkable which has ever been seen.

## GLASS-DEILLING.

"-iessra. Edirors:-In your last issue I noticed an article entitled "To Bore a Hole through Glass;" and as a variety of opinions are supposed to be better than a singla one (if based upon experience), I venture the lib erty to express minc. A short time since, $I$ had occasion to bore some holes through a piece of French crown glass, one-quarter of an inch in thickness. The glazier who cut it for me assured me tliat nothing but a round bar of lead used with emery and water would bore the desired holes. And (by the way) I think lead is proferable to iron, as emery adheres to it much better. But not fancying his slow but sure process, I determined to perform the work more expeditiously. Accordingly I procured a small Stubbs' file, and grinding the point to what I thought the proper slape, bored four holes, onequarter of an inch in diameter, in the short space of half an hour. By trying the same thing since, I am confident that a triangular file of Stubbs' manufacture will never fail, if used with water or turpentine, either of which I consider equally good.
Jackson, Mich., Nov. 21, 1859.

## RABBITS AND TREES.

A simple and perfectly efficacious recipe for preventing rabbits and hares from barking trees, is to take as much thoroughly skimmed milk as required, and mix it up with soot, till about as thick as paint. With this,
paint over the tree with a whitewash brush. It is done paint over the tree with a whitewash brush. It is done very quickly, at little expense and
one season.-Agricultural Gazette.
[As the season is at hand when trees should be treated to protect them from being girdled by rabbits and mice in winter, the above may be very useful to farmers who live in districts where they can obtain coalsoot, but lampblack will answer the same purpose, to those who cannot get the former. We have been assured by those who have tried the experiment, that coal tar is excellent to prevent such animals injuring fruit and other trees. It can be applied warm, with a brush, and now is the time to put it on, before the snow falls. It should be applied close to the root and upwards, to the hight of two feet, at least.-Eds.

Defective Iron Steambrs.-The Reyal Charter, which was recently wrecked on the coast of England, as noticed by as last week, was an iron vessel, and seems to have been constructed of very poor metal and in the most defective manner. She parted amidships so suddenly and broke to pieces so completely and rapidly after she struck, that we are confident no American wooden ship would have done so under the same circumstances. Every ship should be constructed like a bridge-capable of sustaining all the strain placed upon it, even if it were suspended by the extremities. The iron screw steamer Indian, belonging to the Liverpool and Canadian Stcamship Company, was wrecked on the 21st ult. on the coast of Nova Scotia. She was driven on shore in a gale and broke across in the middle like the Royal Charter.

Alemina and Mercery.-The properties of an amalgam of aluminum are very remarkable. Under the influence of mercury it ceases to be a precious metal, and acquires the propertics of an alkaline carthy metal. When exposed to the air the amalgam instantly loses its lustre, becomes heated and oxydizes rapidly, and is converted into alumina and metallic mercury. Water decomposes it with evolution of hydrogen, formation of alumina and deposition of mercury. Nittic acid attacks it with violenco.-Comptes Rendus.

## ADULTERATED OIL OF PEPPERMINT.

The following useful information has been communi cated by Dr. C. Bullock to the Anerican Journal of Pharnacy, regarding adulterated oil of peppermint:-
"An article of oil of peppermint has been sold in the Philadelphia market within the past fortnight. It is of a light yellow color, but considerably darker than is usual with freshly distilled oil of mint, and presents the following characterisicts: When evaporated from a piece of white unsized paper it leaves a yellow mark. Dropped into alcohol of 95 per cent, it does not disseminate itself, but falls to the bottom of the glass in broken globules, and collects in a distinct stratum.
"Agitation produces dissolution, but the solution is turbid, with an amount of oil which should dissolve freely. It presents no re-action with chromic acid, but when dropped on a crystal of iodine, the iodine intumesces and fumes. No such reaction is produced by a pure oil of peppermint. The density of the oil is 0.870. A recent sample of Borton's oil gave a density of 0.90 . These characteristics would point to turpentine as the probable adulteration. It has been suggested by a practiced distiller of oil of peppermint that the adulteration was the essential oil of fire weed. This supposition was based on the peculiar strong smcll left after most of the oil was volatilized from paper.
"Recent oil of peppermint should volatilize completely from the paper withont leaving a mark; when dropped into alcohol of 85 per cent, it should dissolve completely without agitation."

WEEKLY SUMMARY OF INVENTIONS.
The following inventions are among the most useful improvements patented this week. For the claims to these inventions the reader is referred to the official list on another page:-

## improvement in floating batteries.

This invention consists in the construction of a floating battery of circular form, with a central upright shaft, by which it is capable of being anchored in a tide-way, and around which it can be made to revolve while at anchor, to bring all its circular series of guns, in succession, to bear on any object. It also consists in a certain arrangement of screw-propellers in the circular battery, whereby provision is made for giving it a rotary motion about its central shaft when at anchor, or for propelling and steering it from place to place. Epenetus A. Willis, of Cold Spring, L. I., is the inventor.
mproved evaporating apparatus.
This invention consists in the employment of superheated steam as the heating agent for the cvaporation of brine, cane-juice, sirups or other liquids, by allowing it to circulate through pipes surrounded by the liquid in the evaporating-vessel, or through a jacket or false bottom, with which the said vessel is provided, or in any other similar manner. It further consists in superheat ing the steam generated from the liquid at one stage of the evaporating process, or in one part of the evapor-ating-apparatus, by passing it through suitable heater and enabling it, when so superheated, to heat and evap orate the liquid which is at another stage of the process, or in another part of the apparatus. John.P. Hale, of Kanawha, V a., is the inventor of the above improvements.

## machine for grlitting shoe pegs,

E. T. Weeks, of Franconia, N. H., is the inventor of a machine for the above pnrpose, which invention con sists in the employment of a reciprocating knife, in connection with a peculiar means employed for clamping the bolt and feeding the same to the knife; also, in the employment of a gage, in connection with the feeding device, for perfectly adjusting the bolt relatively with the knife.

## improtement in steam plows.

Joseph W. Fawkes, of Christiana, Pa., has invented and patented an additional improvement in steam ta
plows, wherein he employs a large barrel-shaped o oilged driving-wheel for the propulsion of the machine. He avoids the sinking in the earth of the wheels hitherto employed, and is thereby cnabled to employ the locomotive in the culture of soft land, or where it is desi rable to pass the locomotive over plowed land, in seeding, harvesting, te.
grain-binder.
This invention and improvement relates to the bind-
ing of grain into sheaves before it leaves the platform of the harvester, by a simple automatic arrangement which requires only one attendant, and which will gather the grain as it falls upon the platform of the harvester, and bundle it, and at the same time secure the band around the bundle. It consists in the arrangement of a traveling segment in a fixed frame, operated by suitable gearing so as to have an alternate circular movement. This segment carries a jointed arm around the grain, which arm has on its end a button which is fastened to one end of the band to be secured around the sheaf. It further consists in a novel arrangement of parts for operating the aforesaid jointed (button) arm with an independent movement, so that its motion will be faster than that of the traveling segment. It also consists in arranging near the end of the elevated frame, a pecnliar device, which, in connection with a loop-holder and jointed arm, will retain the loop, on one end of the band, in position for receiving the button, and as the button is passed through said loop it will be properly secured around the bundle; said device being operated by a projection on the end of the traveling segment, for retaining the loop on its holder until it it is relieved at the proper time by the jointed arm. This contrivance is the invention of C. H. Durkee, of Hartford, Wis.
apparatus for regulating the pressure of water in pipes.
The object of this invention is to regulate the presssure of the water in pipes so that the latter will not be subjected to any more pressure than is actually necessary to force the water to the desired hight, thereby guarding against the bursting of the pipes and obviating the employment of those heavier and stronger than is necessary to sustain a pressure due to the requisite hight of the columns of water within them. The invention is more especially designed to be applied in certain cases to water pipes which supply buildings in cities, in which pipes the water is not required to be forced up so high as the static pressure in the service pipe will admit of ; for instance, in the city of Brooklyn, which is supplied with water under a considerable head and the pipes in low buildings subjected to unnecessary pressurc. It consists in the employment of an air-chamber provided with a plunyer or yiclding bottom to which a valve stem is attached, the air-chamber and valve being arranged in connection with suitable pipes and in such relation with the supply pipe as to cffect the desired end. The credit of this invention is due to James Stratton, of Brooklyn, N. Y.

FOREIGN SUMMARY-NEWS AND MAREETS. It is gratifying to learn that many new American inventions are appreciated in Europe, and some of them more highly than at home. We find this to be the case with Silver's Marine Governor, illustrated and described on page 356, Vol. Xi., Scientifio American. In a paper read before the late meeting of the British Association for the Advancement of Science, by Mr. James Oldham, he stated that several of these governors were now used in steamships belonging to Hull, England, put up by JohnHamilton, of Glasgow, and they were giving the highest satisfaction. They are so sensitive in their action that the slightest pitching motion is at once indicated, and the steam admitted or excluded as the case may be. "By the use of this governor," he said, "the full power of the engines is in immediate and constant requisition, producing a saving of fuel, and also the preventing of breakagefrom racing of the engines."
It is stated in Cosmos, that M. Corne and M. Demaux have discovered that plaster-of-Paris containing three per cent of coal tar is a most powerful disinfectant. M. Velpeau, a celebrated surgeon in one of the Paris hospitals, also asserts that he has applied it as a plaster for ulcers, that it is very effective, and that it renders inodorous semi-putrescent masses. It has been recommended by the Academy of Sciences for use in the military hospitals.
Excellent buttons and handsome sabstitutes for cameos can be made, according to a foreign periodical, of soapstone (steatite). For this purpose it is submitted for several hours to a white heat, after which it is cooled, and is said to become so hard as to resist the action of a file. Of coarse, the buttons and carzeos are cut before they are heated. Such articles may bs poilshed with eniery, and colored with chloride of gold, which stains them purple, or nitrate of silver which makes them
black. Here is a new field for the enterprise of our m.riufacturing artists.

Ia a communication to the Edinburgh Prilosophical Magazine, Mr. H. C. Sorby states that he has made several experiments with water in capillary tubes to determine when it boils, and at what temperature it freezes. It can be raised to about $212^{\circ}$ without boiling, and lowered below $32^{\circ}$ (the freczing point) without freczing. In tubes of one two-hundredths of an inch, he lowered its temperature to $5^{\circ}$ without freezing, when not in contact with ice. It thus appears that by the water adhering to the sides of the tube, it is prevented from becoming solid at a temperature much below that at which it freezes when in a large body.
Mr. 'Thomas Spencer, the discoverer of the electrotype has lately made another important discovery. He has ascertained that the magnetic oxyd of iron which abounds in rocky strata, sands, \&c., destroys all discoloring and polluting organic solutions in water. Even sewerage water can be thus almost instantaneously purified Morcover, Mr. Spencer has discovered that the apparently mechanical process of filtration is itself magnetical and it being known that all substances are constitutionally more or less subject to magnetical influences, all ex traneous matter suspended in water may be rapidly sep arated in filtration either by magnetic oxyd or black sand of iron.
Mr. Bailly, the president of the London Astronomical Society has been for six years weighing the world in different ways, and is now sure that he has obtained its specific gravity so nearly accurate that his figures cannot err more than 0.0058 . The total weight of the world in gross tuns is $6,062,165,592,211,410,488,880$, according to his scalcs.

Considerable has been published in several of our papers relating to the English river ferry-boats, at Liverpool and other places. They have no upper cabins nor spacious saloons like the ferry-boats in this city. Much better boats should be used at Liverpool, but they could not have such an amount of upper works as those on our rivers. The awful storms which visit the British coast, with the tremendous roll of the Atlantic rushing up the rivers so near to the sea, would not permit ferry-boats like ours to be run. It is now proposed to construct a huge iron tunnel under the Mersey at Liverpool. The illea is taken from the several illustrations of tunnels which have appeared in former volumes of the Scientific American, and which had been proposed for communication between New York and Brooklyn under the East river.

English rails are in better demand than they were a few weeks since. The Welsh are sclling at $£ 6$ per tun for cash, and Staffordshire at $£ 7$. Scotch pig iron has fallen a little, the cash price in Glasgov being $£ 2$ 12s. Bancatin is sclling at $£ 139$ per tun; Straits, at $£ 136$. Copper is in good demand. Spelter has improved, the price being $£ 21$.

The New York and Philadelphia Steamship Company have purchased the iron screw steamers Edinburgh and Glasgow. Their price was $£ 52,500$, about half their original cost. Although they have changed proprietors, they will continue to sail regularly between Greenock and New York.

## New York Markets

Canoles.-Sperm, city, 3sc. a 40c. per lb.; sperm, patent, 50c.; wax parafline, 50 c .; adamantine, city, $181 / \mathrm{cc}$. a 21 c .; stearic, 37 a 28 c . Corpen Tauuton yellow metal, 20 c . Taunton yellow metal, 20c
hemp, 12c. ling $113 \%$ a 117 p $\cdot$ good middling 117 c. a $12 \% \mathrm{c}$. middling f 12\% 亿. a $13 \% \mathrm{cc}$.
Dowsatic Gomin.-Shirtings, bleached, 26 a 32 inch per yard, fic. a 8c.; slirtings, brown, 39 inch per yard, c. a 714 c . ; shirtings, bleached, 33 a 34 inch per $\overline{5 a r d, ~} 7$ a $8 \frac{1}{2}$ c.; sheetings, brown, 36 a 37 inch per yard . c. a 11 c . ; drillings, bleached, 30 inch per yard $81 / 4$ a 10 c .; cloths, all
wool, $\$ 1.50$ a $\$ 2.50$; cloths, cotton warp 85 c . a $\$ 1.37$; cassimeres, 85 c .
 brown, $8 \% \mathrm{cc}$ a 13 c .
Flovn.-State, superfine brands, $\$ 4.90$ a $\$ 4.95$; Ohio conmmon brande, $\$ .500$ a $\$ 5.20$; Ohio, fancs brands, $\$ 5.30$ a $\$ 5.40$; Michigan, Indiana, Wisconsin, tc., $\$ 5.25$ a $\$ 5.35$; Genesec, extra brands,
$\$ 5$. cin a $^{2} \$ 7.50$; Missouri, $\$ 5.10$ a $\$ 7.50$ Canada, $\$ 5.15$ a $\$ 3.20$ Rieh\$7. Liv a $\$ 7.50$; Missouri, $\$ 3.10$ a $\$ 7.50$; Canada, $\$ 5.15$ a $\$ 3.20$ Riehmozd Cits, $\$ 6.50$ a $\$ 7.25$; Baltimore (Howard-street),
rye flour. fine, $\$ 3.63$ a $\$ 3.90$; corn meal, $\$ 4.05$ a $\$ 4.10$.
Henm-American wadressed, $\$ 147$ a $\$ 150$; dressed, from $\$ 160$ $\$ 200$. Jute, $\$ 57$ a $\$ 93$. Italian, $\$ 27 \mathrm{~F}$. Russian clean, $\$ 190$ per tun. I:nilla, fizíc. per lb.
Ivdia-rubime, - Para, fine, 7ce, per Ib. : East India, 50c. a 59 Inmice.-Dengal, $\$ 1$ a $\$ 1.05$ per 1b.; Madras, 75c. a 95 c .; Manilla,

60c. a $\$ 1.15$; Guatemala, $\$ 1$ a $\$ 1.25$.
Iron.-Pig, Scotch, pertun, $\$ 23.50$ a $\$ 24$; Bar, Swedes, ordinary gnality, per lb, 1114 c a 113 c . Sheet English,

Ivory-Per lb, $\$ 1.25$ a $\$ 1.80$
Latirs.-Eastern, per M., $\$ 2.10$ a $\$ 2.15$.
Lend.-Galena, $\$ 5.80$ per 100 lbs.; Ger7na $\$ 5.65$; bar, sheet and pipe, $53 / 4$ c. a 63 . per 1 b .
Leather.-Oak slaughter, light, slc. a 30 c per lb; Oak, medin, 1c. a 33c.; Oak, heavy, 30c. a 31c.;Oak, Ohio 29c. a 30c.; Hemlock eavy, California, 20\%c. a 211/c.; Hemlock, buff, 15c. a 18c.; Cordo an, 50 c . a 00 c .; Morocco, per. dozen, $\$ 18$ to $\$ 20 . ;$ Patent enam
led, 16 c a 17 c . per foot, light Sheep, morocco finish, $\$ 7.50$ a $\$ 8.50$ per dozen.; Cnlf-skins, oak, 57c. a 60c.; Hemlock, 56c. a 60 c .; Belt ing, oak, 32c. a 34 c . ; Hemlock, 28c. a 31 c .
Lare.-Rockland, 8Uc. per bbl.
Lumber.-Timber, white pine, per M feet, \$17.50; yello pine, $\$ 35$ a $\$ 36$; oak, $\$ 18$ a $\$ 28$; castern pine and spruc $\$ 13$ a $\$ 15$ White Pine, clear, $\$ 35$ a $\$ 40$; White Pine,sclect, $\$ 25$ a $\$ 30$ White Pinc, box, $\$ 14$ a $\$ 18$; White Pine, flooring, $1 / \frac{1}{4}$ inc ressed, tongued and grooved, $\$ 24.50$ a $\$ 25$; Ycllow Pine, flooring $1 / 1 /$ inch, dressed, tongued and grooved, $\$ 29$ a $\$ 32$; White Pine, A bany boards, dressed, tongued andgrooved, $\$ 20$ a $\$ 31$; Black Wal White Woed, $\$ 45$, Black Walnut, $2 \mathrm{duality}, \$ 00$, Cherrs, goed, $\$ 45$; nre Wood, proc Re.; Spruce Boares, isc.alic.; Hemlock Boards, 12 c.a 14.., Fem
 Staves, white oak, $\$ 2$ a $\$ 25$; Staves, C . O. pipe, light, $\$ 55$ a $\$ 53$ culls, $\$ 30$ a $\$ 35$; Stave, lind, heavy, $\$ 70$ : Stoves do bbl liph $\$ 30$ a $\$ 35$; Staves, do. bbl. culls, $\$ 20$; Mahosany-Dutr, 8 per cent d. val. -st. Domineo, fine crotches, per foot 35 c a 45 c : St. Domi oo, ordinary do., 20c. a 2 jc c.; Londuras, finc, 12\%c. a 15c.; Mexican, 13c. a 15 c .
 oe, $14^{1 \times 3} \mathrm{c}$.
Ons.-Linseed, city made, 56 c . per gallon; linseed, English, 56 c whale, bleached winter, 59c. a 60c.; whale, blsached Fall, 58c nerm, crude, $\$ 1.35$; sperm, unbleached winter, $\$ 1.45$; coal oil, $\$ 1$ lard oil, No. 1 winter, 90 c. a 9 0.c.; refined rosin, 30 c . a.40c.; camphen c. a 47c.; fluid, 53c. a 55 c .

Paints. $\rightarrow$ Litharge, American, 7c. per lb.; lead, red, American, 7c. lead, white, American. pure, in oil, sc.; lead, white, American, pure drs, 74 c c.; zinc, white, Amelican, dry, No. 1, 5c.; zinc, white, French dr, 4c.: zinc, white, French, in oil, Me.., ochre, ground in oil, 48 Gc; Spanish brown, ground in oil, 4c.; Paris white, American, 75 c C. per 100 lbs.; vermillion, Chinese, $\$ 1.112$ a $\$ 1.2$, Venetian red C., $\$ 1.6$ a $\$ .11 / 4$ per Chalk, cash, $\$ 4.75$ per tenn

Plaster-or-Paris.-Buc Nova Scotia, $\$ . .65$ a $\$ 2.87 \%$ per tun hite Nova Scolla, $\$$ calined, $\$ 1.20$ per bit
 $\$ 2$; No. 1, per 280 lbs $\$ 2.25$ a $\$ 8.50$; white $\$ 3.75$ a $\$ 4.50$; pale Spretwr
Spriter plates, 5 c . a $5 \frac{1}{4} \mathrm{c}$ e. per lb
Stret.-English cast, 14c. a 16c. per 1b.; German, 7c. a 10c.; Am ican spring, 5 c. a $5 \not / \mathrm{fc}$.; American blister, 47/2c. a $5 / 72 \mathrm{c}$.
Tallow.-Americin prime, 11 c . per lb .
Torpentine, Crude $\$ 250$, per gollon.
Wool.-American, Saxony fleece, 5cc. a 55c. per lb.; American full blood merino, 4 fc. a 48 c . ; extra, pulled, 45 c . a 50 c .; superfine, pulled, 37c. a 41c.; California, fine, unwashed, 24c. a 32c.; California, Zino.-Sheets, 74 c. a $7 \nsim \mathrm{c}$. per 1 b .
The foregoing rates indicate the state of the New York markets nup to November 24th

There has been very little change in the prices since ast weck, thus showing a fair and steady business
The reports from the western cities regarding the sales of grain represent great uniformity in the prices and sales The receipts in this city have been very heary and the stock is rapidly augmenting.
The forcign trade of this port for the last week, com pared with that of the corresponding season last year may be epitomized thus:-
Imports, week ending Nov. $19,1859 \ldots . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .008,871$
Increase in 1859.........................................10,70,77

Increase in 1859........................................... \$148,688
Foreign goods are in moderate request, except for the newest and most desirable patterns. Silks continue to be largely placed at anction, and prices almost invariably run low. Robes, with two or three flounces, meet with moderate sale, and are retailed at exceedingly low rates. Other goods are quiet, and slow of sale, both at public and private sale. The salesrooms are crowded with accumulated goods.
A steady fair demand prevails for most descriptions of chy goods of domestic manufacture, and prices have undergone but little change. The manufacturers are generally engaged on fabrics for the spring trade, which promises to be large. The inquiry for export is good, and the sales present a larger aggregate than was generally looked for among the trade. Notwithstanding the present month was generally expected to be very dull, the aggregate transactions have been to a fair extent, and prices have been sustained.

issued from the united states patent offige for tie weel ending noyimera $2,185 \%$.

## [Reported Officially for the Sctentrio Anfrionv.]

## * Pamphlets giving full particnlars of the mode of nnppling for 

 Publishers of the Scirmilic ANERICAN, New York.26,150. -Charles J. Addy, of Ruxbury, Mass., for an Improved Clock Escapement:
 ing in combination with n recoil paliet
26, 151.-Moses Allan, of Utica, N. Y., for an Improvement in Metal-planin, Machines:


 being constructed, combincd and operating substantially in the mana ner set forth.
26, $152 .-$ E. G. Allen, of Boston, Mass., for a Combination Steam Gage
I claim the combination and arrangement of the asveral instru-
nents requisite to enable the exeine to reevlate the ments requisite to enable the encincer to refulate the properworking
of steam machinery, substantially as set forth; the said iwstruments bcingiaserted in ne case, and having the hands or other indicattor
upon ene face or dial plate, in the manner and for the purposcs speci upon
fied.
26,153.-Samuel Barber, of South Brunswick, N. J. for an Improved W ashing-machine:
I claim the combination with the $1 \cdot v e r, ~ N$, for operating the frame
, of a curved extension guide, R , for adjusting the frame in the a of a curved extension guide, $R$, for adusting the serrated arc, $J$
manner get forth; and-
Second, The arrangement, with the above, of the sern Second, The arrangement, with the above, of the serrated nre, J,
on top of the danh-bard, G, for arjinting the inclination of said oard, for the purposes and in the manner specified.
LThis invention is an improvement in the adjustment of a washing machine for adapting it to the varions articles to be washed, by a mes the dash-board to or from the surface of the box, at the sam or less sw, by a peculiar acjustment of a swinghe friste, first, in th emplosment of a segmental extension guide-piece attached to the rame of the dash-board, and operated by a friction roller attached to hand lever, so that the motion of the frame can be regulatec, an he pivot of the lever placed toits least possible working distanc rom the fulcrum; and it also consists in regulating the dash-boar means of a segmental rack extending from the top and in rear he dash-board, and a pin passing down through a cross.tle of the
winging frame into the tecth of said rack.]
26,154.-Eli Bartholomew, of Cleveland, Ohio, for an Improvement in Bcehives

26,155.-Jerred Beach, of Freeport, Pa., for an Improved Saw-set:

1. claim the arrangerment of the puide, $c$, with elot, $\mathcal{F}$, levers, $f$ and m, connecting-link, , set screws, 1234 and 5 , when used in connec nnvil, i, and set, 5 , the whole being arranged a
stantially as described for the purpose set forth.
26,156.-D. Berry, of Huntington, Ind., for an Improvement in Automatic Canal Bridges:
claim the bridge, J , arranged to work one inclined $\mathbf{w}$
I claim the bridge, I , arranged to work on inclined ways, $F$ E, and
onneted $b$ ba chain and wheel, $M$ N or their equivalents, to a chaft connected by a chain and wheel, M N, or their equivalents, to a e haft
O, which is connected, by gearng, to segments, $Q$, in line with the
bride and bridge and the batt, got that the former cand be
ment of the latter, substantially as described.
[The object of this invention is to obtain a bridge for canals that may be opened by a boat as it passes along, and closed by its own in its operation throughout, allowing low bridres to be wed in ceec where high piers and bridges are now requircdin order to allow the boats to pass underneath them.]
26, 157.-Milton B. Bishop, of Whitingham, Vt., for an Improvement in Washing-machines:
1 claim the means of operating the two wash-bonrds, viz. the
arrangement and application of the two sets of levers or brakes. $F F$. arrangement and application of the two sets of levers or brakes, F $F$
together and with respect to the wafh boards, B C, disposed one over the other nad in the tub, as described.
I albo claim, in combination with the 1also claim, in combination with the upper wash-hoard, $\mathbf{B}_{2}$ and its
brake, H, the rocker shaft, K , the slide-bar
M ; the same belng for the purnose or objecte side the pprings, M alsa to claim the combination of the said oblecter speciffed, meaning
springa
26,158.-Wendlin Bleser, of New York City, for Composition Cement or Mortar:
I claim the mortar described, made and employed substantially as
26,156.-Joseph W. Bradley, of New York City, for an Improvement in Ladies' Bustles:
I claim a bustle consiating of a waist-band, compoed in narts of
atrins, a a, of metal or other elastic mate rial, and a apiral sprinf, A tapored firm the mididde tor elaststic mate rial, and a entiral aplied to and combine, A
with such waist-band substantially as described.
TTh invertion consista in the $W$ b
apiral epsing tapered from the middle towards each ende bame, and a
26,160.-Lockwood B. Brooks, of New York City, for an Improvement in Steam $V$ alves:
I claim resdering the trio parts, $B$ and $C$, of the halancer
Vnluppet
By B', to the sleave, C, by the yoke, U, or its ecruivnient, armane atem. and
operated substantialis in the manner and for the purposes set forth,
