## FOREIGN SUMMARY－METALS AND MARKETS．

An immense factory for making the Armstrong rifled cannon，at Newcastle－on－Tyne，England，is nearly com pleted．It is to consist of five distinct shops；the first， 312 feet long and 80 feet wide，is to be devoted to forg ging with huge steam hammers．The foundry is already in operation，and the casting of one 70 －pounder has been made．It is intended to arm the navy and the forts along the coast with such cannon at an early date．
To those who are skeptical of the immense power of compressed steam to cause great explosions，and who seek for some other agent，like electricity，to do this，the explosion of a blast－furnace，which lately took place at Hanley，will afford some convincing evidence that any compressed gas can produce equally as destructive effects． The engine which supplied this blast－firnace with hot air had stepped，and the valve to shut out the air from passing into the receiver would not act．The foul gas accumulated in the furnace，passed through the pipes into the receiver，and exploded with terrific effect，shatter－ ing the engine to pieces，and hurling the fragments to a distance of several hundred yards．The explosion was heard at a distance of three miles，and the loss of pro－ perty caused by it amounts to $£ 10,000$ ．
From a return made to the House of Commons，it ap－ pears that 78,641 tuns of copper were imported into England last year，and 24， 787 tans of British copper ex－ ported．About 2,955 tuns of tin and 628 tuns of ore were imported； 2,327 tuns were exported； 23,725 tuns of spelter and zinc imported；2，012 tuns of carbonate of zinc were imported，and 533 of the oxyd ； 3,985 tuns of British zinc were exported； 14,139 tuns tuns of pig and sheet learl，and $2,39.6$ of ore，were imported； 325 tuns of lead ore， 17,645 tuns of rolled and pig， 1,910 tuns of shot， 490 of litharge， 2,292 red lead $2_{2}$ and 2,684 of white lead，were exported．

A bill has beantrotuced into the British Parliament for reforming the rates of fares at toll－bars，so as to re－ duce them for steam－carriages on common turnpike－roads． The preamble to the bill states that there is a probability of such carriages coming into more general use．
It is calculated by M．Carmal，a Prussian engineer， that there is as much coal in that kingdom as wiil suffice for comitumptop the tine centurfes
The new French floating－batteries are provided with morable platforms，which can be lowered down and taken up easily，to allow riflemen to stand upon them and be protected with movable shields．
The French rifled cannon（30－pounders）are bored with three grooves two inches wide and one－eighth of an inch deep，and make about a quarter of a turn from the breach to the muzzle；the twist is pearly nniform． About 30 of these are now being turned out per day． The bullets are conical，with feathers for the grooves． The range of these guns is five miles，and their accuracy wonderful．
In the new Louvre，Paris，a number of handsom 3 bronze pillars support the lamps for illuminating the Place Napoleon III．，and each of these pillars stands near the sidewalk and is furnished，with a dolphin＇s head，out of which pours a stream of water for washing the pave－ ment．
Two small steam sloops have lately been built in Eng－ land for the Emperor of Russia．

In regard to the corn market，the Mark Lane Express states that the weather has been very changeable of late， and considerable damage has been done to the crops，and that there has been a slight rise in wheat．The effect of the atorms on the potato crop could not yet be estima－ ted，but the probability was a slight injury at most．
prices of forbign ifetals，july 27.


The prominent change in the price of metals has been a considerable rise in pig－iron．
Hails have bean more inquired after，and holders re－ fuse to sell less than $£ 6$ and $£ 65$ s．per tun for ordinary． The demand for Sootch pig－iron had inoreased for ship－ ment； 10,000 tuns were forwarded the preceding week． Tin plates were rising．Lead was in good requent；and spelter lively．

## New York Marizets．

Cost－－Foreign cannel，$\$ 9$ ；Anthraclte，from $\$ 4.50, \$ 4.75$ ，to $\$ 5.50$ Corpage，－Manilla， $8 \%$ c．a 8 8\％c．per 1b．
Corron．－The alles were more favorable this week，still the prices have somewhat fuctuated．Good ordinary Upland，Florida and Mo－
 Coprze－There bae been a conaiderable advance in the rices of 26c． Fiove－There has been a slight upward tendency of prices $^{\text {and }}$ Southern flourhas been buopant，but on the whole，hetween one day and another，the market may be set down as fluctuating．Genesee
brands，$\$ 5.25 \mathrm{a} \$ 8$ ；Ohio choice，$\$ 5.50$ a $\$ 7.75$ ；common brand from brands，$\$ 5.25 \mathrm{san}$
$\$ 4.15$ up to $\$ 6$ ．
Hemp．－American undressed，$\$ 140$ a $\$ 150$ ；dressed fiom $\$ 190$ $\$ 210$ ．Jute，$\$ 95$ a $\$ 90$ ．Italian scarce．Russian clean，$\$ 210$ a $\$ 215$ Manilla 6\％＇s．a 6\％4c．per lb．
Indla－rozber－Para，fine，55c．a 57 亿年．per 1b．；East India，37e． Indigo．－Bengal，$\$ 1$ a $\$ 1.65$ per 1b．；Manilla，good to prime， 55 c ．a 1．10；Guatemala，$\$ 1.05$ a $\$ 1.25$
Iron．－Anthracite pig，$\$ 23$ a $\$ 24$ per tun；Scotch，$\$ 24$ to $\$ 24.50$ ； Wedish bar，ordinary sizes，$\$ 88$ a $\$ 90$ ；English refined，$\$ 53$ a $\$ 54.50$ aglish common，$\$ 43$ a $\$ 45$ ．Ruseian sheet，first quality， $11 x_{3} \mathrm{c}$ ．a 12 c er lb．；English，single，doubleand treble， 3 3／rc．a $37 / \mathrm{cc}$ ．
Lrad．－Galens，$\$ 5.80$ per 100 lbs ，Ger
Leather－Oak slaughter，light，35c．a 37c．per lb．Oat heave 20 c 35c：Oak，crop，40c．a 42c．；Hemlock，middle Oak，heavy， 32 c Hemlock，light，25c．a $25 \% / \mathrm{c}$ ．；Hemlock，heavy，23 $3 / \mathrm{cc}$ a $241 / \mathrm{c}$ c；Pat－ ent enameled，16c．a 17c．per ot，light．Sheep，morocco finish；$\$ 7.50$ a $\$ 8.50$ per dozen．Calf skins，oak，62c．a 65 c ．；Hemlock， 60 c ．a 65 c Belting，oak， 32 c ． 34 c ．；Hemlock， 28 c ．a 31 c ．
Nars．－Cut are quiet butsteady at 3c．a $33 / \mathrm{cc}$ ．er lb．American clinch sell inlots，aswanted，at 5c．a 6c；wr ught foreign， 3 c ．a $3 \geq 8 \mathrm{c}$ ． American horseshoe， $14^{13}$／3．
Oпs．－Linseed，city made，60c．per gallon；whale，bleached spring， 54 c a 56 c ；sperm，crude，$\$ 1.20$ a $\$ 1.27$ ；sperm，unbleached spring， $\$ 135$ ；lard oil，No． 1 winter -85 C ，a 90 c．；extra refined rasin，30c．a 40c．；machinery，59c．a 100c．；camphene， 45 c ．a 47 c ．；coal，refined，from $\$ 1.12$ a $\$ 1.50$ ．
Resin．－Common，$\$ 1.77 \mathrm{x}$ per 310 lbs ．bbl．$\ddagger$ No．2，sce．，$\$ 1.80$ a $\$ 2.12{ }^{2}$ ；No．1，per 2801 bs ．bbl．，$\$ 2.25$ a $\$ 3$ ；wbite，$\$ 3.25$ a $\$ 4.50$ ；pale $\$ 450$ a $\$ 6.25$ ．
SFELTER， $5 \%$ c．perlb．
Sties．－English cast，14c．a 16c．per 1b．；German，7c．a 10c．；Am－ rican spring，5c．a $5 \%$ c．；American blister，4 4 c．a $5 \%$ c．
Tallow．－American prime， 103 c ，to 11 c ．， p r lh
Tiv．－Eanca，34c．a 34 3 cc ；Straits，32e．a $39 \% \mathrm{c}$ ．；plates，$\$ 7.50$ a $\$ 9.87$ 次 a $\$ 10.08$ per box．The holders of this metal seem not to be anxious to sell．Banca has still an upward tendency．
Tokrentine，－Crude，$\$ 3.62 / / 2$ per 280 lbs．；spirits，turpentine，44\％c． 45\％s．per gallon．
Zinc．－Sheets，7／8 a 73／4 per lb．
The foregoing rates indicate the state of the Now York markets up o Aug． 11.
The following are the prices of printing cloths in Providence，R I． Market firmi goopls yery scarce：－5000 pleces， 64 by 64 ，private
 by 60 ， $5 \% \mathrm{cc}$ ．； 4,000 pieces， 52 by $56,5 \% \mathrm{c}$ ．； 3,000 pleces， 52 by $52,5 \mathrm{c}$. ； ，500 pieces， 48 by $52,47 / \mathrm{c}$ ．
The Arabia＇s news is rather more favorable for cotton． The Liverpool markets had been active during the week， and holders had sought for an advance，though without success．Trade at Manchester had also been more ani－ mated．The effect of the news here has not yet been tested．The markets have been dull for some time，but， with more favorable advices，would show renewed ac－ tivity．

The Erie Railroad．－Judge Mitchell，to whom was entrusted the selection of a receiver for the Erie Railroad，has appointed Mr．Nathaniel Marsh to the position．Mr．Marsh has long been connected with the company as secretary．The appointment appears to give very general satisfaction，every one feeling assured that the affairs of the road will be managed economically and energetically，and above all，honestly．The bonds are for $\$ 150,000$ ，and the sureties are to be Mr．Daniel Drew and Mr．Samuel Marsh．At the last meeting of the Directors a committee was appointed to devise some plan of reorganization．A feasible plan，one that will give satisfaction to all parties interested，is by no means easily arrived at．There are the second mortgage bond－ holders to be satisfied；back coupons to be settled， troublesome stockholders to be conciliated，and arrear－ ages to employes（say $\$ 250,000$ ）to be paid off．The work of the committee will be anything but pleasant． This process of＂wiping out＂the stock and sonfe classes of the bonds must fall heavily upon many who in the early ages of railway investment deemed these securities the best in the market．Erie Railroad stock has sold as high as 95 cents on the dollar．We are acquainted with a gentleman in this city who is said to hold $\$ 250,000$ of stock and bonds of the unfortunate corporation．There are many other railroads in our country that must sooner or later come to this same＂lame and impotent conclu－ sion．＂The evil day is fast approaching with many of them，and it astonishes us，in view of the almost desper－ ate condition of this class of property，when we hear of partiee taking stook in new enterprises of this character．

issued from tue united states patent office for taib wess mindina adacos 9， 1859.
［Reported Officially for the Sclminurio Asmerran．］
＊＊Pamphlets giving full particulars of the mode of applying for
patents，size of model required，end much other luformatyon use－ patenta，size of model required，and nuch other tuformpenyon use－ fol to inventors，may be had gratis by addressing M
Publishers of the ScImNTIFIO AMERICAN，New York．
24．978－H．O．Ames，of New Orleans，La．，for an Im－ provement in Apparatus for Heating Evaporating
I claim the arrangement of the parallel evaporating pipes， DD
with their elbows and collara and screw nozzles，a a passing through the bottom of the pan，and the parallel external a spply and eacape
pipes， B and $\mathbf{C}$ ，with the nozze，d d．and union couplings， 11 ，for
making makibed．
24，979．－John Andrews，of Clinton，Mass．，for an Im． provement in Seeding Machines：
I claim thearrangement and combination of the vibrating bars or
blocks，
$z$ whereby the cam which operates the harrow，also，no ases the seed sidee，and the harrow bare，g，have a horizon a．
vertical play with the frame upon the axle，$d$ ．
［This improved harrow is so constructed that it will，while harrow－ ing the ground，sow grain at the same time．］
24，980．－John Andrews，of Clinton，Mass．，for an Im－ provement in Seeding Machines：
I claim，first，The arrangement and combination of the blocks，$b$ ，
circuar plates， $\begin{aligned} & \text { ，teeth，} \\ & \text { as shown and described．}\end{aligned}$ lever，u，and seed slidera，$p$ ，substantially shown and described．
Second，The arrangement and combina ion of the covering apron，
1 ，bar， d ，blocks， b, rod， $\bar{y}$ ，and lever， x ，as shown and described． ［This harrow is for the same purpose as the preseding，but the end is arrived at by a different mechanical combination．Both are ex－ cellent inventions，but require illustrations to fully explain them．］
24，981．－Francis Armstrong，of New Orleans，La．，for an Improvement in Brakes for Railroad Cars：
I claim makingthe adjustment from the pul，or the coupling，when
actuating on dis inc ly detached parta，namely，the latch，$c$ ，and actuating on dis inc 1 y detached parts，namely，the latch，$c$ ，and
 m ，when arranged
purpose set forth．
24，982．－Moses S．Beach，of Brooklyn，N．Y．，for an
Improvement in Maehinery to Feed Sheets of Paper
to Printhitg Ringept
I clalm，first，Feedings sheets to the impresion cylinders of printing－ presses bv means of revolving arms，or scrapers，a，operating in con Second，Retaining the paper in connection with the impression
cylinders of printing－presses，during the processof printing，bry means
of holders，f and $g^{\prime}$ ，in the manner sibstantially as described． Third，Detaching the peper from the ingineasion cylinders by means
The the 24，983．－G．W．Beard，of Canton，Miss．，for an Im－ provement in Cotton Cultivators：
I claim the peculiar shape given to the scrapers or cutters J J ，and
their lateral and ver ical adjustment，in combination with the ad－ justable plow beams，$C$ C，when the same are all arranged in the anner and for the purposes set forth．
The nature of this invention consists in combining with two right and left turn－plows having their standards fixed in a laterally adjust： ablable both peculiar sbaped scrapers or cutters，which are made ad－ plow，foracting on both sides ofthe ridge at a single operation．］
24，984．－E．P．Beauchamp，of Preston，Ga．，for an Im－ I claim the arrangement ofthe box 1 ，axle， 2 ，whe
I claim the arrangement ofthe box 1 ，axle， 2 ，wheels， 3 ，eide－pieces
or frame， 4, bolt，5，beam， 6 ，stock 7 ，follower， 8 ，furrow opener， 9 ，and
brace， 10 ，as described，for the purposes set forth． brace，10，as described，for the purposes set forth．
24，985．－Laurent Beaudreau，of Fond du Lac，Wis．，for an Improved Shingle Machine：
I claim therelative arrangement，for united opera ion，of the inter－


escribed．
CThis improvement relates to that cla s of ahingle machines in which the bolt or block lying inclined is fed up to a circular revolving saw，and in which，after the ehingle is cut from the block，the latter and tipped in a reverse direction and griped to effect a succeeding cut， and so on until the whole bolt is cut up．By this inven ion one saw operates in the above manneron two blocks or bolts．］
24，986．－Philip Bettle，of London，England，for an
Improvement in Watch－cases．Patented in England Nov，18，1857：
I claim，first，The attachment of the inner case containing．the movement of the outer case，by means of pins or pivots，so that．the
movement case can be turned over，to face the open or closed side of the outer case without being removed from the outer case．
Second，Attaching the pendant handie to the movement case，
that it forms one of the centers or piyote，on which the watch turn
in connection and combination with a pin or pivot on the on connection and combination with a pin or pivot on the opposite side Third，The particular form aud manner of constructing the pen－
dant，and attaching the same to the inner or movement case before dant，and attaching described and shown．
24，987．－Wm．Billinghurst，of Rochester，N，Y．，for a Fishing Reel：
I claim the combination，of the gkeleton ring，R R RR，with the
other parts of the reel，the whole being arranged in the manner and forthe purpose substantially as set forth．
24，988．－Edmond Blanchard，of Greenfield Mills，Md．
for an Improvement in Composts：
I elsim，as a new article of manufactare a ferthiang compost，
composed of
bran, chimney soot
manner described.
[By a judicious mix
cbeat wheat bran, chimney soot and plaster (gypsum) a very superior compost is obtained, onethat possesses all the essentialproperties that the
soil requires for the raising of wheat and other cerials, and although soil requires for the raising of wheat and other cerials, and although
its cost is but one-fourth of guano, by experiment it has been proved that it wiil produce a heavier erop.]
24,989.-E. Burroughs, of Rochester, N. Y., for an Improvement in Machin s for Cutting Paper:
I claim, fir t , The employment or use of the reciprocating and os-
cillating knife,
the when arranged to operate, substantially as and for che purkose set forth. $G$, in connection with the cone of pulleys, $T$, at-
Second, The knife,
tached to the shaft, $S$, the hollow shafts, $z$, with their respective

 or the puripue ni witumatically chavging the movement of the knife
froma fockending to an upwill moverent.
Fourth, The clamp formed of the vertical and Fourth, The clamp formed of the vertical. and horizontal plates, $p$
q, when arranged as hown, goas to be adjusted by the screw, s, and
pinion, or worm wheel, $\mathbf{r}$, pinions, $\mathbf{u}$ un and racks, $\mathrm{P} P$, the latter serv-



24,990.-J. T. Campbell, of Rockville, Ind., for an Im proved Adding Machine:
I claim the arrangement of a series of wheels provided witb ten cogs or teeth, and carrying the ten numeric figures on theiro outward
faces, in combination with the stationary plate containing like nu-
meric figures arrenged on the circlo, surrounding each of the wheels meric figures arranged on the circts, surrounaing each of the wheel
in the serives substantially as deseribed.
And in combination with the parti above claimed, arranged as de
 24,991. Walter Clark, of Palmyra, IIl., for Improvement in Seed Planters:
I claim the armangement of tbe reciprocating agitating rod, r , when
passing throughthe adjustable seed discharge opening in the eide of
the 1 thpper, with the frame, $F$, wheels, $W$, pint, $P$, teeth, a b $c$, hop-


24,992.-W. Cogswell and C. A. Mathewson, of Ottawa Ill., for an Improvement in Corn Harvesters:
 with its stationary toothed plate, s, in connection with movable bed,
or fingers,
minee the whole being placed on a monnted foint opecention substantially
[In this machinea rotary and reciprocating cutter and a movable bed are employed; they are mounted on a frame, so that as the machinels drawnalong, the standing cane or corn will be cut and deposit
edin proper nized gavels on the earth.]
edin proper aized gavels on the earth.]
24,993.-J. P. Coonley, of Farmington, Mich., for an Improvement in Corn Planters:
I claim the arrangement of seeding-roller, $H$, gear wheels, d d,
slide plate, $I$, lever, $c$, adjustable teeth,, , covercrs, $F$, and tracking
gage, $M$, constructed and operated substantially as and forthe purgage, M const
poses set forth.
24, 994.-B. T. Currier, of Bath, Maine, for an Inpprorement in Corn Harresters:

[Peculiar shaped cutters which perform the twofold purpose of gathering and cutting the stalk, and holding it firmly betyeen tie chine, and constitute the invention.]
24,995.-Edward Davidson, of Batesville, Ark., for an Improyement in Hoop Fastenings for Cotton Bales. I claim forming the socket of two parte to admit of the same being
opendd to receive the bent or doulled and lapped ends of the bale
hoon and closed to secure the ends of the hoop together, substantially openisd to receive the bent or
hoop, and closed to secure the end
as and for the purpose s ecified.
[An engraving and description of this invention will be found on anotherpage.]
24,996.-Alva G. De Wolfe, of Seymour, Conn., for an Improvement in Vulcanized Gums:
I claimthe use of pulverized, vulcanized rubber, gutta-percha, or
other vulcanized gum, in the manner and for the purpose specified. 24,997.-C. S. Dickinson, of Cleveland, Ohio, for an

Improved Centrifugal Gun:
I claim, frrst, The cmphnowernt of lever, C. provided with a collar which surrounds whift, li, pivoted or hinged at x and provided with
 and its connections throngh the center of the shaft, B, and in the
other direction by means of spring, $F$, for the purpose ofdischarging
the balls from the barrel at the propertime, substantially as set forth. 24,998.-Rudolph Dirks, of Philadelphia, Pa., for an Improvement in Seats for Sleeping Cars:

 Secorg. The boards, Gand K, ad sted to and sliding in or against
the epartitons, $D$, and arranged as specified, so as to form the foot the partitions, $D \mathrm{D}$, a and arranged as specified, so as to form the foot
and head-board for the couches.
Third, The frame, H, ashinged to the side of the carand the frame I, so hinged to the frame $H$, that both frames may assume the po-
sitione inustrated in frise, 1 and 2 , in combination with the partitions,
DD, and their sliding frump, G,
 arrange
24,999.-Zachariah Feagan, of Palmyra, Wi., for an Improvement in Hemp-brakes:
I claim the arrangement and combination of the stationary bars, $L$
L, finger gaards, OO, vibrating spring levers, E E, znd cams, D,
the whole being constructed and operated substantially in the man. L, finger guards, O O, vibrating spring levers, E I, and cams, D'D
the whole being constructed and
ner and for the purpose set forth.
25,000.-Andrew Dougherty, of Brooklyn, N. Y., for an Improvement in Printing-presses:
I claim the combination of the inking apparatus at the side of the
main cylinder of a press, with a carriage that can be moved from and main cylinder of a press, with a carriage that can be moved from and
towards the main cylinder, and with a stop that controls the position
of the carriage; the combination, as a whole, operating substantiall of the carriage; the combination, as a whole, operating substantially

25,001.-Albert Eames, of Bridgeport, Conn., for an Improved Die for Swaging Bolt-heads:
I claim making dies for swaging bolt-headsand other articles in two
or more parts, the parts forming the bottom being fitted to and in the or more parts, the parts forming the bottom being fitted to and in the
part forninis the periphery, substantially a a desc ibed, and the whole
fitted to sul secured withi
the drop, or equivalent there for, as set part for
fitted t
fort.
And

And I also claim, in comb nation with the die, the bottom of which ade sewirste from and inserted in the part formingthe periphery,
grooving the priplkry of the part forming the bottom for the escape
fair, sutateutislly as described. fair, sulbetatitislly as described.
55,002.-J. P. Emswiler, of Knight's Tower, Ind., for
an Improvement in Sewing Machines: in Sewing Machines:
I claim the combination of the slide, M, or its equivalent, arrange
substantially as described, with the feding nechanimm, or the pur pose of adjusting the bed to the feeding mechanism for'materinals of
various thicknesses, without changing the position of the feeding mechanism.
And1 also claim, in combination with the bobbin, arranged as decribed, to vibrate, on the shuttle the longitudinal arched pressure
spring, arranged substantially as described for the purpose set forth 25,003.-Moses G. Farmer, of Salem, Mass., for an Improvement in Windlasses:
I claim the combination of the roller, A, the rat het wheel $B$, the
 Represed, , and the joint, E, brought into a straight liner, which inter-
sects the axis, 1 , and the point of the actuating ratchet which is in contact with a tooth of the wheel, B .
I claim the mong dezeribelin of permitting the luackward motion of
the roller, A. $v i$.
 uuch menne as the spyings, $K$, the pronecing sirns,
per position of the collar, $J$, substantially as degeribed. 25,004.-C. N. Farr, of Philadelphia, Pa., for an Improvement in Sewing Machines:
I claim the arrangement of the fulcrum slide, $r$, stops, $q$ and s , and as set forth.
And in combination with said looping-bar, sidjusted as described, I
claim the rocking lever, $o$, fittimg and acting as specified. 25,005.-Benaiah Fitts, of Worcester, Mass., for an Improvement in Governor V alves:
cribed, that is to say, Testing or eupporting the valve as shown at $M$ and retaining it into its scat, as shownat N , for the purposes set forth. to V. R. David, of Morris, Ill.), for an Improvement in Cultivators:
I claim the arrangement of the tongne, A, curved or segurent bar, ached, substautionly asand for the purpise ist furth. [The object of this invention is to obtain a cultivator which may be he soil, and for hilling or earthing-up plants. In short, an imple me soil, and for hing or earthing-up plants. In short, an implegenerally termed "hoed crops," or such as are grown in hills or drills.]
25,007.-Edwin Gomez, of New York City, for an Apparatus for Folding or Wrapping Papers:
I claim the foldera $f$ f, formed with the lips, 44 , and volutes, 33 , In
combination with the intermediate twisters, $i \mathrm{i}$, in the manner and or the purposes specified,
25,008.-Geo. P. Gordon and F. O. Degener, of New
York City, for an Improvement in Printing-presses We claing, first, Combining with the tympan-frame the sheet-hold-
ing and relieving-nippers or gripmers, for the purpose of holding he

 nation with the tympan-frame, for the purpose of closing the tympan
and properly laying the sheet upon the form in advance of the pas Tage of the impression cylinder or its equivalent.
wirth, We clatm operating the shet-holding and relieving-grip-
pers by or through the motion of the tympan. Fifth, We claim attaching a tympanmpan. tram an adjustable bed in ions tewards each other, in the manner described.
Sixth We claim hanging hinging or attaching the inking-apparit may be turned, swung, or set aside, so as to allow the workman to put at the form to make any necessary alterations, or to make the
form ready, or for the purpose of using the bed as a composing'stone. 25,009.-Ralph Greenwood, of Altoona, Pa., for an

Improvement in Fire-boxes of Locomotive-engines: I claim the midfeather, $C$, when used in connection with a gas
charmber, D , and fire-box
parts leing arranged yeldutively with each other to operate substan parts being arranged relatively with each other to ope ane surpose set forth.
tially as and for the
I further claim the cylinders, EF , when applied to the ori ces of the gas chamber and fire-box, and connected by a lever, $G$, to operate
simultaneously as and for the pur ose set forth.
25,010.-Leonard B. Griswold, of Pennfield, N. Y.,
for an Improvement in Potato-diggers:
I claim the employment of a notatin, head or disk, having teeth or axis thereof, in combination with the truck, $B$, and driving-wheels, $G$ F, or theire equivalents, for giving
tially as and for the purpose set forth.
25,011.-W. D. Harrah and B. S. Baldwin, of Davenport, Iowa, for an Improvement in Seed-planters:

 drgerifed,
Second, In combination with the hopper, $F$, the arrangement of the
foot-lever, $J$, and hinged bar, $i$, when the latter is so h!netd as to foot-lever, $J$, and hinged bar, i, when the latter is so hInged as to
throw the pants of the seed tube forward in thelr adjusment, or
when the foot-lever is depressed, snbstantially as and for the purpose described. 5,012.-Robert S. Harris, of Galena,
proved Water-gage for Steam-boilers:
I claim the within-speci fied manner of constructing and attaching
he float-stem to the boiler, wherebs it is made to answer for carrying the float and as an index for indicating the hight of the water in the boiler, and, if desirable, as a trip for opening a valve fo
whistle, all in the manner and for the purpose described.
25,013.-James Harrison, Jr., of New York City, for
an Improvement in Sewing-machines:
I claim, first, The switching-lever, n, constructed and of orstrid as
set forth, for directing the thread to the beard or barb of thie needle, and preventing the escape of the thread therefrom. Second, ine needle, Second, of clain controlling the feed and the stitch by the raising or
Thinir, of the nedle as et forth
thus forming a twing the neede, and carming with it the thread,

25,014.-George A Hay, of Berea, Ohio, for an Improved Machine for Cutting-out Wooden-ware:
 pinion, $L$, in the manner and for the purpose substantians of as set
forth. 25,015.-James Haynes, of Hollis, Maine, for an ImWood Saw-frame: I claim the inclined plane, ratchet and the nipper or strainer, ap-
plied to the saw and frame, as described and represented in th draw-
25,016.-Stanislas Hoga, Wm. P. Piggott and Septi-
mus Beardmore, of Middlesex county, England, for mus Beardmore, of Middlesex county, England, for an Improved Mode of Generating and Applying Electric Currents in Telegraphing:
We claim the an lication to telegraphic Instruments of currents of
electricity,
or in and relations described.
25,017.-Robert Hooper, of Baltimore, Md., for an Improvement in Steam-boilers:
I claim, first, Contracting that part of the boiter immediately above
the fire-flues, in combinatlon with the widening and extending of hat part which is beyond or in the rear, and above the end of the

 and the purtion walls of the said wate.
tially as and for the purposes set forth.
25, 018.-Anthony Iske, of Lancaster, and Jacob B. Erb, of Conestoga township, Pa., for an Improved Approach-opening Gate:
ve claim the arrangement of the platforms, $\mathcal{G}$, uprights, $\mathbf{H}$, to the
 series of eross-slata, connected by pivots with the rlaty ${ }^{2}$ Ing as
shown, when combined, in the manner set forth, or eublumululy the
same.
25,019.-John W. Kingman, of Dover, N. H., for an Improvement in Machines for Milking Cows:
I claim the teat-cups or tubes, parthally covered at their unper ends, with anelastic flange, subst nitially as described which will rield for
the insertion of the teat, and gripe it so as tho hold the cup u on the
teat during the process of milking and form a packing between the teat during the process of milking and form a packing between the
edge of the cup and the teat, which will be preasic against the teat by
the external gir when the internal air is exhuiskirit and, in combina-
 air-pump, and connected with said cup or cups by ffr
arranged as to exhaust the air and draw the milk fr
other animal, substantially in the manner described.
25,020.-Ebenezer A. Lester, of Boston, Mass., for an Improvement in Railroad Car-wheels:
I claim attaching the wheel, D , to its arle, by means of the auxiliary
hub, E, with its recess, f, and groove, e, and the segmental ring, H, or路 sequivalent, connected with the wheel in the manmer substantially

25,021. -Theodore Lipshuts and Daniel C. Jones, of Ballston $\mathrm{Spa}_{2}$ N. Y., for a Self-acting Battery for Soaring Crows, 衣e. :
We chnini the rising ard falling box, K, arranged with the slide, $g$
and apertures p , and operating in combination with the do d , J, and
pulley, E , substantially in the manner and for the purposes specified
TThe ob ect of th sinvention is to arrange a battery with a number of chambers, in connection with a gun-barrel, in such a manner that chambers, one after another, are made to go off at regular inter urious animals, and the invention consists in arranging a rising and falling kox in such relation to a revolving battery, that when the box is filled with sand it sinks down and causes a hammer to discharge ne of the chambers of the battery, and the box is so arranged that it discharges the sand when it reaches the ground, and it is raised by weights ready for a new charge.]
25,022.-Samuel W. Lowe, of Philadelphia, Pa., for
an Improvement in Machines for Milking Cows:
I claim the cup, A, with the perforated dhaptraquat i3, when conhaving an opening in the dienhraem fire oarh tent and combined with
an exhausting apparatus, constructed substantiails as described and
for the purpose set forth

25,023.-Moses Marshall, of Lowell, Mass., for an Improved Device for Making Electro-magnetic Currents Constant or Intermittent:
I claim the spring, $g$ so constructed and arranged as to be insulated and $k$, or othervise, essentially in the manner and for the purpose
25,024.-W. McElwee, of Shelbyville, Ind., for an Improved Kitchen Safe:
I claim the combination and arrangement of hollow posts, $B$, with
water- ups, $D$, a anged in the manner and for the purpose specified. CThe body of this safe is mounted on hollow posts, extending from the fioor the top of the safe, and they are provided with mater cups near the botiom of each leg. which are connected by perforations with
the compartments of the safe, so that cool ir is always supplied to the compartments of the safe, so that cool ir is al
25,025.-E. McKenney, of Montgomery, Ohios for an
Improvement in Seeding-machines:
I claim the arrangement and combination of the distributing disks, $L$, levers, $N$, check valves, $q$, and buttons, $u$, to operate together with
the hammer, o , and with the boli, $M$, substantially as and for the pur-
poses set forth.
CWith this machine the corn or seed can be deposited in hills at different distances apart, and the time when the check-valve opens, an when the corn is deposited in the gronnd, is indicated by a hammer checkrows a bell, so that the operator is enabled to plant his seed in contrivances to render it an efficient and good seeding- aehine.]
25,026.-J. B. McMillan, of Tipton, Ind., for an Im-
provement in Seed-planters:
I claim the planting and covering apparatus, when constructed
and a ranged tn the manner and for the purreees set forth. 25,027,-Adam Miller, of Mt. Pleasant, Iowa, for an Improvement in Underground Draining Machine: I claim the combination and arrangement of the mole with the
drain-protectors, as described, for the purpose of expeditiously and drain-protectors, as described, for the purpose of expeditiously and
ea.omically giving protection to the upper part of the ditch, and of
dheingaging the protectors from the mole plow with facility after they arengaging the protectors from the mole pow whill
2\%,028. - Alex. Miller, of Newbern, N. C., or an Improvement in Drivers for Millstones:
I olsim the emplaymenat or use of the friction rollers, $\mathbf{B}$ B applied
the driver, $A$, in connection with the plates, $\mathbf{C} \mathbf{C}$, or their equiva
lents fitted in the recesses adjoining the eye of the stone or runner,
for tie purm ine of forming proper bearing surfaces for the rollers
the wbie being arranged substantially as and for the purpose set for thie R
the whi
forth.

The object of this invention is to reduce the friction attending the rotating of the stone, by the driver, when the former is unsteady, from its unbalanced state or from an untrue position of the spindle, Theinventionconsists having a fiction roller attached to each end of the driver on opposite sides, and having steel plates fitted in the rollers.]
25,029.-Saml. C. Moore, of Providence, R. I., for an Improvement in Hoops for Skeleton Skirts

## as a new article of manufacture.

25,030.-Oliver P. Moran, of Haynesville, Mo., for an
Improved Device for holding together the Panels or
Portable Fences:
 led notches, $i$ i, in the end battens, substantially in the manner and

25,031.-Saml. Mowry, of Womelsdorf, Pa., for an Im provement in Cultivators
 tivato
25,032.-A. A. Moss, of Philadelphia, Pa., for an Improvement in Hydro-carbon Vapor Apparatus:
I clatm the steam generator, A, and dryer, E , in combination with
distinct hydro-carbon vaporizer, C , the samm being also connected with the retort, D, and the whole arranged together so as to generate the steam and hydrocarbon vapor separately, and for their subse-
quently mingling and combination, substantially in the manner and
for the purpose described.

25,033.-Matthew Mitchell, of Alton, Ill., for an Improvement in Corn-planters.
$\mathbf{H}$, shoes, S , and cutters, $N$, with the device for operatin , hopmers, combination with the frame, K , hung on the axle, D , and with the
slides operated as described--the whole being constructed and arrangedsubstantially in the manner and for the purposes set forth.
[This planter is designed to plant seed in sod ground by cutting through and depositing the seed underneath the sod, or it may be applied to planting in old and mellow ground.]
25,034. -Don J. Mozart, of Yellow Springs, Obio, for an Improved Arrangement of Dead-beat Escape ment:
I claim the improved arrangement of the double "scapers," $G$ $G$,
with the star scaposexieer, $E$, or its equivalent, substantially as and for the purpose specified.
25,035.-Edward Norton, of Boston, Mass., or an Im-
provement in Skates:
I claim the metal straps, $D$ and $E$, and the sloted
crew, $G$, for tightening the skate to the foot, $J$, and
[This invention consists in making the sole-plate, or what is more generally called the stock of the sk te, of metal, and in two detached
 heel and toe straps for securing the skate to the foot of sheet metal which are secured tightly to the foot by a peculiar fastening.]
25,036.-Marcus P. Norton, of Troy, N. Y., for an Improvement in Postmarking Stamps:
I claim the blotter, J, connected or attached to the main part of any "post-office post-marking stamp," for the purpose of cutting and
inking blotting and effacing, so as on sucessfully cancel the frank
or postage stamp of any leter or postage stamp of any letter or any package, at the same time and
peration of marking upon such letter or package the name of any
postoffice, the year, the month and the day of the month, substan. ially as and for the purpose set fortil.
25,037. -Leonard Packard, of Galesburg, Ill., for an Improvement in Cultivators:
Claim the arrangement of the beams, $\mathbf{P}$, the irons, $\mathrm{Z} \mathrm{Z}^{\prime}$, and the
rojection, $\boldsymbol{X}$, on the ends of the beams, the adjustable arms,

25,038.-J. J. Parker, of Marietta, Ohio, for an Im proved Egg-beater, or Churn:
I claim the tube, $A$, in combination with the band, $C$, and grated
bottom, $M$-all constructed, arranged and operating substantially in the manamer described.
25,039.-Horace Parkhurst, of DeKalb, Ill., for an Im proved Clothes-frame:
I claim the combination and arrangement of the standards, A, the
25,040.-Dubois D. Parmelee, of New York City, assignor to J. A. Greene, of Beverly, Mass., for an
Improvement in Mode of Uniting Solid Substances: 1 claim the method and process describe of uniting various sub-
stancesor bodies of the same or different character and properties,
by the interposition between the surface of said substance or bodies
to be united, of one or more sheets or layers of indlas-rubber and gut. a-percha, seperately, or when comblayed with the subsbances, suth
and heets or layers having prevlousloy been treated in the tapaner de
cribed, to produce the change oppecifid. wherebr, on completion of said change, a water-proof cement is cistalract, whichl, while it it pospensatengly the expanite, possesses a sufficient degree of elasticity to com-
antraction of the fibers of the bodies

25,041. -Lawson G. Peel, of Webster county, Ga., for an Improvement in Corn-planters:
I c aim the arrangement of the beam, $F$, stock. $E$, frame, $D$, bolt,
, hopper, $A$, wheel, $B$, and $\mathbf{c y l i n d e r , ~} \mathbf{C}$, as described, for the purposes set forth.
25,042. - Colwell P. Pool, of New Market, Ala., for an Improvement in Filing Cotton-gin Saws:
Y claim thearrangement of the file-case, $B$, with the file-holder, $b$,
nd sleeves, $b$,. to and sleeves, an to ther in combination with the bar, C , and with
the slide, E , and ridan
purpose specifie.
A series of files, in suitable sockets, are arranged in such a man er that a reciprocating as well as an oscillating motion can be given othe files, ana that when the same are brought in the proper rela tion to the saws of a gna cylinder, the teeth of the several saws may d, no that is sa no the same opera, ana ano whetted and round every single saw.

25,043.-Wm. F. Pratt, of Bristol, Pa., for an Improvement in Sewing Machines:
I claim the constructionof the thread-case with an angular projec tion, j, extending across its center, and the construction of the slide
ring or its equivalent, with a similar anyuler projection, 1, fitting to the said projection, , as described, sal operating in combination
therewith in the manner substantially as apecified, not only to pre
vent the twining of the thread-case, but to cneck and control th vent the twining of the thread-case, but to check and control the
loops in their paranatio over said case, thereby avoiding the useof sepa

25,044.-S. M. Quimby, A. H. Brown, G. H. Renton and James Criswell, of Newark, N. J., for an Im-
proved Furnace for Making Iron direct from the Ore:
We claim the arch, K , the hopper-damper, E , the rods or bars,
0 o on arra ged and operated substantially as described in the drawings. claim the dampers at the bottom of the tubes for discharging one
25,045.-John B. Read, of Cold Spring, N. Y., for an Improvement in Apparatus for Tanning:
1 claim an improved apparatus for tanning and other purposes; said apparatus consisting of one or anumber of smooth porous or perfo-
rated surfaces of wood, or other fixed material, placed singly or in suc cession in open or closed vats or vessels, or arranged in pairs so as
to form closed hollow cases, upon which skins or other substances o
un to form closed hollow cases, upon which skins or other substances to
be operated upon are to be smothl stretched, and then the tannin
or other fuis. forced through them by hydrotatic or onther pressurc
into the finterior, whence means of cscape are provided as described
 substances in form of sheets, to cover over the pcrforated parts of th
cases net overlaid by the skins, \&c-, that the fuids used may be a
forded no passage except by percolating through the skins, \&c.
25,046.-Chas. A. Robbe, of Augusta, Ga., for an Im provement in Gas Retorts:
 ther, substantially as set forth
25,047.-Theodore B. Rogers, of Wethersfield, Conn.
for an Improvement in Seed-planters:
fioats, $\mathbf{H}$, ad justabrangemente pins, E , and slides, $\mathbf{I} I^{\prime} I^{\prime \prime}$, leverker, $\mathbf{L}$, former, $G$, purpose
25,048
25, 048.-James Rue, of Englishtown, N. J., for an Improvement in Cultivators.
 pin, c, all arranged and
[This cultivatorbelongs to that class of plows which are intended orhilling and weeding corn, potatoes, tobacco, cotton, and all other sorts of root crops, and which are made to straddle the rows or hills,
so that the plants pass between the shares and the draft animals, and that the plants pass between the shares and the draft animals, and tops of the growing, which is raised high enough to, pass over the is attached to the necks of the draft animals. The invention consists in attaching the draft pole to the beams by means of hinged rods,
which conncet with the pole at a point above the pin to which the draft animals are hitched, so that any strain exerted on that pin has a tendency to depress the rear end of the draft pole and to ruice its
 out ary artit exertiver emer diver or anmin, ate? as the pole is connected by hinged rods without any rigid fastening, the driver is enabled to accommodate the action of the shares to the inequalitios of the ground, and at the same time the front ends of the shares can raised and the cultivator drawn from place to place.]
25,049.-Ezra D. Sargent, of Indianapolis, Ind., for an
Improvement in Seats and Couches for Railroad Cars:
I claim, first, The side lounge, $G$, or nurse couch, constructed and arranged as and for the purpose set forth. And,
Second, Its combination with the backs, a L'M, seats, F G I J J
partitions, P, bpangets, $Z$, and stops $\mathbf{V}$; all arranged, constructed and operated substantially as set furth in the specitication.
25,050.-John Shaefer, of Lancaster, Pa., for an Im-
provement in Grinding-cylinders for Apple Mills:
I claim the tangential, curved, iongitudinal, toothed cylinders,
25,051.-John P. Sherwood, of Fort Edward, N. Y.,
for an Improvement in Nail Plate-feeders:
I claim the employment of the stationary inclined plane, $N$, and
the tumbler, $O$, having an inclined face, $k$, in combination with the


25,052.-Evan Skelly, of Plaquemine, La., for an Im provement in Apparatus for Heating Evaporating Pans:
I claim the employment, in an evaporating pan, of a conical steam heater, with a central opening and a passage
under its bottom, substantially as described,
25,053.-N. B. Slayton, of Madison, Ind., for an Im provement in Securing Artificial Teeth:
I claim, first, Securing artificial teeth on plates of goid or silver
by me ans of an amalgam of gold or silver, or both, combined with by means of an amalgam of gold or silver, or both, combined
merury substantially as described, for the purposes set forth.
Second, I claim forming, by means of said amalgam,
Second, I claim forming, by mean, of gaid amalgam, an outer
fange or rim, a, covering and supporting the base of the teeth, sub-
tantially as and for the purpose set forth.
25,054.-Solomon P. Smith, of Crescent, N. Y., for an
Improvement in Straw-cutters:
 25, 055.-Abel Spencer, Jr., of Southport, N. Y., for an

Improved Mortising Machine:
I claim the fiame made with cross-heads connected together by
means of the jointed rods, JJ, and having those rods jointed at or

25,056.-La Fayette Stevens, of Elmita, N. Y., for an
Improved Machine for Tenoning Blind Slats:
I claim constructing the cutter-head with grooved cheeke, , clampare held in an oblique position with the plane of rotation with, the
cutting edge of the operating one, terminating in conjunction with
that of the hollow hub, h, and shoulder, $e$ arranged and operating substantially as and for the purposes set forth. arranged and operating
$I$ also claim the combination and arrangement of the rest, $K$, with
stationary and movable upper slivd lower jus, stantially in the manner and tor the proper eficibe age, q, sub
I further claim the arrangement in de for gaging the lengtn of the slat, consisting of the automatic stop boit, $t$ as operated by in
cil 1 ned

25,057.-Stephen Stewart, of Philadelphia, Pa., for a Burglars' Alarm:
I claim the combination of the several parts, A B C D E F G H
J K M Nand O, an described and arranged to operate substantially as and for the purposes set forth.
25,058.-Wm. A. Suddith and John F. Suddith, of Charlestown, Va., for an Improved Washing Machine: provement in Sewing Machines: claim the morable cup, $g$, and its appendages, for griping and au-
tomatically releasing the shuttle at lntervals substantially as apeI aliso claim the construction and arran
tus as and for the purpose set forth,
25,060.-Horace Trumbutt, of Jersey City, N. J., for an Improvement in Machines for Washing and Separating Ores after being Pulverized:
I claim the application to a rotary buddle or table such as eacribed
of vibating brushes, when the same are arranged and operated es. ntially as specified.
[This invention relates to an improvement in washing and separating pulverized ores and other substances, and for treating ores of zinc, or any pulverized ores or minerals, where machinery known as the rotating buddle or table is used. It consists in arranging upon suitable frames, to allor whichan oscillatigg motion is given, brushes, so pivoted to the framesthat they wils press upon the surface of the table or buddle with just sufficient gravity to keep the ore in constant aggtation without scraping or wiping it into heaps and re tarding its passage over the tables, as is the case with the revolving or fi ed brushes; and also in giving to these brushes a greafer spced than that of the buddie, which is to be determined by the consisten
or quality of theores to be subjected to the separatingprocess.]
25,061. - Ttis Tufts, of Boston, Mass., for an Improvement in Elevators or Hoisting Apparatus for Hotels, \&c.
I claim, first, For the purposes of elevating, the combination of the screw and the passenger car or platform.
second, I claim the construction of a screw for elevating having
stays or bearers at inter vals, attached to the wall of a building or any fixed adjaccurs structere.
Third I clam the constion of a nut with a slot or opening in
The back or side to enuble it to pass by the bearings or stays before referred to and asydescribcd.
Fourth, I elaim constructing a nut or carriage with wheels or roll-
ers running upon the thread of the screw substantially as described. Fifth, I claim controlling the descending motion of elevators or
hoisting apparatus by means of fluid retarders, constructed substantially as described. Sixth, I claim regulating the action of fiuid retarders by means of Sixth, I claim regulating the action of fiuid retarders by means of
a fly-ball governor or its equivalent substantially as described.
Seventh, I claim the construction, urrangement and operation of nazsenger cars of an elcvator or hoisting apmaratus substantially as or gates, said doosts, or or gates being combined with side waitable mechananism
arr'anged in relation to stationary cams or projections on the gallery floors, or any contiguous parts of the building so as to open and close
automatically in the manuer and for the purposcs substantially as set
forth forth.

 came or projections upon the gallery floors or adjacent walls of the Tenth, I claim fastening and unfastening automatically the doors or gates, of the galleries or landings, by spring latches or their equi--
valents, operated by cams or projections upon the car, substantially valents, operated by cams or projections upo described.
Eleven Eleventh, I claim the arrester, ${ }^{\prime}$, in combination with the fluid
retarder, for the ooljects and purposes set forth.
Twelftl Twelfth, I claim passing the shipping rods,and the cord or rod that
operates the friction brake through the car or platform, for the objects
and purposes set forth.
25,062.-Wm. B. Twiford, of Chincoteauque, Va., for an Improvement in Dumping Wagons:
Y claim the three-sided four wheel, open frame, C , stationary crank
axle, B , and long wagon body, D , when constructed and arranged for
[This invention relate to bueldump du d
[This invention relates to four-wheel dumping wagons, and is designed to obviate the necessity of using a turning crank axle. The manner f a wagon of its length. By this arrangement a nopen space is left in the frame beyond the sxis on which the body swings, for the hind end of the body to move or descend through when the front end is elevated. This construction is more permanent than a turning crank axle, and is also much simpler and cheaper.]
25,063. -Felix Tylee, of Cleveland, Ohio, for an Improved Spring-bed Bottom:
I claim, first, The central support, $C$, when the same shall be con-
structed substantially in the manner and for the purpose set forth and described.
Second, I clai
Second, I claim the combination and arrangement of upper slat, $D$,
pin, $e$, supports, if with central support, $c$, spring $d$, and blocks, pin, e, supports, f f with central support, c , spring d d, and blocke,
an when all shal he constructeel and arranged $\ln$ relation to each
other as fully set forth and described. 25,064. - Lorenzo Tyler, of Havana, N. Y., for an Im-
provement in Machinery for Sowing Fertilizers:
 ated as and for the pur pose set forth.
25,065.-Geo. H. Van Vleck and Horace Tupper;- of
Buffalo, N. Y., for an Improved Hose Coupling: We claim thearrangement on the thimble, A' of the budd, C, with
two or more screw threads, D, having its described, and being provided with a proitrig rim, E , to operate in
combination with the thimble, A , sis with the nut, B , substantially
as and for the purpose set forth as and for the purpose set forth.
LA simple and efficient hose coupling-that is, one tha can be "set up" quickly and easily, as well when the water is turned on as when it is off, has long been a desideratum. Such a coupling is the object of this invention, which consists in arranging at the ends of the thim. bles to which the hose 18 fastened a male and female screw, with two more threads, the female part of the screw boing placed losely the hose and the misies, so that it can be turned independent fin the other thimble, and an additional rim that serves as a protection and assists in making thejoint tight.]
25,066. -Amsey Warren, of Westport, Conn., for an Improvement in Cultivators.

qheels,, B, the whole being
far the purpose set forth. fieting bar attached to a mounted frame having a handle secured to it, a device is obtained that may be shoved by a man between the rows ofcrops under cultivation, and thesoil pulverized and the weeds eradicated.]
25,067.-J. F. Waterhouse, of Germantown, Pa., for on Improvement in Knitting Machines:
I claim, frist, The appl cation of a dram, 5 , or its equivalent, with


 Thurd, Movin the pege ine the drum, drum, its equivalent at Intervale disk, 3 , and ith itwo inclined projections in in combination with the Catchet whell,, .
Farth, Impar
In
notion to the needie bars by meansof the de ios described, or their 25,068 .-J. A. wikinoon, of Brooklyn, N. Y., for a

Machine for Receiving and Piling Paper:
\#claim, irst The accelerating bands,

 25,069.-J. A. Wilkinson, of Brooklyn, N. Y., for an Improvement in Rotary Presses:
I claim first The curved demi-grab, $c$, $w$ th the sliding clamp 6 ,
and lip,, , or the purposes as specified.
 specciped. Thirlim the arrangement of the proof cylinder, B , and rollers
c b, forinking the type an the proof cylinder, a a deecribed and shown:


seceure the proof cylinder, and failltate, the correcting of the types, ai
bet forth
 Seventh, I claim revolving the typer crilliderired in $a$ trough contath
ing alkaine or other suitable solution for washing the types as specified $\begin{aligned} & \text { Inght, I claim the apron fif for leading the paper into the proess, } \\ & \text { and on which maid paper liee, while receiving the first impreseion }\end{aligned}$ and on which aid paper hef, whie rect ${ }^{\text {and }}$,
 or twisting, as described and shown.
Tenthing ribs on sidid curred bridge
in diverging ilines porugating or form forme the paper widthways, as the same pasees overthe hridge, as speeified.
Eiloventh, I claimithe auxiliaxy frame, $F$, hinged $i n t o$ the main





 Fitepent, I caim the arrangement of the ink-rollers, , and workthe purposes set forth.
25,070.-Eri Wills, of Augusta, Maine, for an Improvement in Stump-extractors:
 Bu constructed and
purposes
eef forth.
25,071.-A. P. Winslow, of Cleveland, Ohio, for an Improvement in Roofs for Railroad Cars:
Iclaim the plates, D, caps. F, and grooved-raferg, B , when arran-
ged substant ally as Bet forth for the purpose descriced.
25,072.-J. F. Wisnewski, of Cincinnati, Ohio, for an Improvement in the Preparation of Gly cerine:
 deseribed for the purposes set forth.
25,073.-Edward F. Woodward, of Brooklyn, N. Y.,
for an Improvement in Skeleton-skirts:
I claim the sectional extension girirt, when combined and attached
to the eircuilar akit, the whole being arranged and constructed in the manner and for
25,074.-Albert H. Wright, of Camden, N: J., for a Composition of Matter for Ornamental Purposes:


25,075.-John K. Wright, of Philadelphia, Pa., for a Machine for Printing in Different Colors:


25,076.-Nathan Ames, of Saugus, Mass. (assignor to
himself and Ward MaLean, of New York City), for an Improvement in Revolving Stairs:
I claim, irst, Arranging gteps or stairs upon an endless belt, or in



Fourth, The use of auxiliary stationary stepsor stata, to opprate in
oonnection with the revolving stairt, suvitantally as and for the pur-

:25,077.-L. S. Baldwin and Lucius Parks, of Leroy, N.
Y. (assignors to L. S. Baldwin aforesaid), for an Y. (assignors to L. S. Baldwin aforesaid)


25,078.-R. Eickemeyer, of Yonkers, N. Y. (assignor to himself and E. Underhill, of same place), for an Improvement in Sewing-machines:

 any subs ance supported in the angle of gaid plate. sup shorting-plate, the obliquely-arranged needle, and a looper, applied and operating so
asin itsmovements to follow the angle of said plate substantially as
dacribed

 Fourth , I claim angular supporting-plate, suhstantiaul a described.
in a swing ing frame of the feeding dog and presser supporting platame, as provide for the combintrodution and arith the angular
hats and frovalof the
Fifthe I claim the machine substantiall as described. Fifth, I claim the slide, fitted as doscribed to the angular plate, $\mathbf{F}$, surface of the plate a shown in Fle F., and having appiied one tit a
spring, , by which it operated as deccibed, in combination with
the
 25,079.-Asahel Elmer (assignor to Nathan Elmer and R. M. Pritchard), of Shabbona Grove, Ill,, for an Improvement in Portable Capstan and Crabs:
I cla m so combining with the truck. Wheels or ground supports a team that draws the apparatus and works the capotan may be used
for setting or anchoring the said crab and capstan, as well as to raise it setting or anchoring the said crab and capstan, as well as to raise
it un, reload it on to the truck, and transport it from place to place,

25,080-Isaac Good
to himself and Geo. A Morw, to hims an ancerement in Bomb Lances: I or an Improvement in Bomb Lances:
I claim, erst, The compound wing described, consiatng of the

 the exterior surfaces of the griam min such a manner as or expand in
coincident plates, aubstantialy in the manner and for the purposes
set forth coincident
set forth.
25,081.-Louis Koch (assignor to himself and H. Forstrick), of New York City, for an Improved Railroad Station Indicator:
Lealm the apron or band, $K$, wit the names of the streets or sta ing on rollers, II or are revotviving patate, or stan, attached to and tat and work-
ing index, when said appon, plate or index are operated from the runng index, when saia apron, plate or index are operated from the run-
ning-gear of the oar by guitable mechanism to give the same a con-
tinuous movement and simultaneous with that of the car, for the purose set forth.
25,082.-Morris Pollak (assignor to Morris Talkenan, Morris Pollak and Solomon Weiner), of Hoboken, N. J., for a Double Clasp-hook for Watch-chains, \&e.:
 designs.
Robert Ham (assignor to Smith, Shelden \& Co.), of Troy, N. Y., for a Parlor Stove.
E. J. Ney (assignor to the Lowell Manufacturing Co.), of Low ll, Mass., for Carpet Patterns. (Tiwo cases.) Isaac de Zouche, of St. Lonis, Mo., for a Parlor Coal Stove.
N. E. Rassell, of New York City, for a Table Fork. DISCLAMMER.
William Blake, of Boston, Mass., for an Improvement in Gas-burners. Patented Aug. 9, 1845 ; disclaimerfiled Aug. 5, 1859:
I hereby enter my digclaimer to that part of said burner which was
sef forth and clasmed as the "pall shape or mouth of the lower part

## EXTENsION.

William Blake, of Boston, Mass., for an Improvement in Gas-burners. Patent dated Aug. 9, 1845:

purpose set forth.
Ialoo claim making the lower part of the inner ca e of the burner With a bell-shaped o ening or mouth, in the manner and for the pur-
pose specified.
A. A. Richad aditional improvements.
. Richards, of Urbana, Ohio, for an Improved Lock. Patented Feb. 15, 1859:
 as to produce friction between the ring, X, and wheel, W, and arbor
S. and alyothe arrangenent of the brake, $k$, indented flange, Wo and
stem o as above described, so as to prevent the revolution of the stem o as above described, so as to prevent the revolution of the
wheel $W$, and a bor, and ring, $X$, and the exteraal dial hand, sub-

Frederick Yeiser, of Lexington, Ky., for an Improvement in Instruments for Taking Altitudes of the Sun. Patented Feb. 8, 1859:

 ceive the sun's image throngh the lons, in such relation to each other,
and to the rotary bar, E, that it operates substantially as and for the p rposes specified.

THIRTY-FIRST ANNUAL FAIR OF THE AMERICAN INSTTTUTVE, in the City of New Y York.-The den, in 14 th-street, ne the ththavenue on September $21,1859$. New
In ventionsand Improvementin ine Mechanc and Industrial Arte, any articles of superior qual ty and beauty of workmanship, will be
received from Sept. 15 to ao. Seeam power will be provided to put in
operation all kinds of maehinery. Premlums will be awarded on the reporte of competent and impartial judges. Circulars can be had at
the office of the Institute, in the Coope Institute Building, corner of


## COBUN'S EXTRA OH - FOR MACMINERY


LATHTT \& CO COMMISSTON AGEATS FOR


## errespondlents

G. M., Jr., of Ill.-An electric light, such as you descr be, has been experimented with for a long time in our eity, scr be, has been experimented with for a long time in our city,
principally in rega d to its application for light-houses. It has not principalls in rega d to its application for light-houses.
yet been rendered perfectly practicable for this purpose.
S. R., of Mass.-If you run the piston of your engine at a velocity of 300 feet per minute, you will obtain the best resulta from it, we think. If the water in your boiler is clean, there is no necessity for running it off every three weeksi.
G. C. L., of N. Y.-You car dissolve india-rubber.in coal-oil, or in warm spirits of turpentine.
E. H., of Del.-You state that the steel tool which you were grinding became quite hot at the end farthest from the stone, and remalned cool near the point where it was being ground. If you employed water in grinding, it would carry off some of the heat condactor to retain the heat conducted to the endof the teoi.
E. H., of La.- We are much obliged to you for the diagrams you send us. We thin, however, they will not afford suffcient general interest to our readers to warrant us in presenting received.
W. P., of Ohio.-It will require a pipe with one square inch of area to be 1,692 feet high, and filled with water, toovercome a press re of 60 ibs. in a boiler. A column of water of thl eleva tion D .
A. D. B., of Pa.-The molds for smooth brass-castings are made of iron. Chilled iron-castings are also run in iron . Z. W., of Vt.-It would be of no use to try to get circulars of all the mowing and reaping-machines ever patented. So far as weknow, compressed air has not been used for teleg aphing, except by the use of the piston alr-telegraph. The compression, however, was very limited.
M. N., of La.-We have found sweet oil and rotten stone best adapted for cleaning mahogany furniture. It is rubbed on with a plece of flannel first, then fillshed off by rubbing with an old silk hand erchief.
J. R., of Del.-Th bullets for the United States army are made outof sol d metal by machinery, but we do no know how mans are made per minute by one machline. All the cone bullets D. K. A., of Ohio
D. K. A., of Ohio.-We are confident that you cannot bleach coal-tar with chlorine, without altering its character in a
measure; but you can easily make the experiment, at a very small cost.
L. V. B., of Ky.-Iron water-tanks should all be coated with asphalt vatnigh, put on het and allowed to bocome perfectly dry beforethewateris admitted. Common pitch, heated in an iron vessel, and pat on quickly with a br sh, will answer your purpose, Cisterns lined with lead should
tended for domestic purposes.
J. G. W., of N. Y.-We have endeavored to account for all explosions by pressure, and the cases to which you have reWashburn, inanother column, for confirmation of our views. We should be glad, however, to receive your explanation of the matter. J. G. C., of Ala.-You will find the description of an ice-house on page 59, Vol. XIV., Scientific Anmations.

## Money Received

At the Scientific American Office on agcount of Patent Office business, for the week ending Sat rday, Aug. 13, 1869:-
E. \& R., of Mich., $\$ 25$; J. W., of Ohio, $\$ 25 ;$ J. R., of La., $\$ 20$;
H. W. W., of. $\$ 30$; A. B., of N. Y., $\$ 55 ;$ Z. T. C H. W. W., of,$- ~ \$ 30$; A. B., of N. Y., $\$ 55 ;$ Z. T. C., of Ind.,
$\$ 30$; J. A. P., of Ind., $\$ 30$; F. C. L., of N. Y., $\$ 30$ A. H. $\$ 30$; T.T. C., of Texas, $\$ 95$; P. M. S. \& Co., of Teхяa, $\$ 25$, iH. H. B., of N. J., $\$ 25$; W. R. S., of N. Y.. $\$ 25$; W. P. C., of Ohio, $\$ 5$;
G.W. B. B., of Lan, $\$ 55$; L. R. F., of Ga., $\$ 40$; M. D. D., of N. Y., $\$ 20$; G. E. S., of $\mathrm{Il}, 1, \$ 30 ;$ J. H. S., of N. Y., $\$ 55$; T. G. W., of N. $\$ ., \$ 39$; A. L. C., of N. Y., $\$ 30$; E. K. B. Y., of N. J., $\$ 30$; H. H. K. \&., Y., $\$ 32$; A. L. C., of N. Y., $\$ 30$; E. K. Bn, of N. J., $\$ 30$; H. K. \&.,
of Mass., $\$ 30$; B. F. A., of KF., $\$ 30$; W. S. M., of Pan, $\$ 25 ;$ A. K., of Ill., $\$ 25$; J. W., of Mass., $\$ 30 ;$ A. C., of Mass., $\$ 75$; E. M., of
Mich., $\$ 30 ;$ P. \& R., of Conn., $\$ 30 ;$ H. R. K., of Ohio, $\$ 10$; R. D., Mich., $\$ 30$; P. \&R., of Conn., $\$ 30 ;$ H. R. K., of Ohio, $\$ 10 ;$ R. D.,
of Mich., $\$ 25$; R.S. L., of Conn., $\$ 40 ;$ L. T., of -, $\$ 20$ J. M. C of Mich., $\$ 25$; R. S. L., of Conn, $\$ 40 ;$ L. T., of,$- \$ 30 ;$ J. M. C.,
of.$-- \$ 30 ;$ W.M., of Mass., $\$ 35 ;$ J.N., of,$- \$ 30 ;$ C, L. R., of Wis., $\$ 50$; A. \& B., of N. Y., $\$ 55$; J. B. A., of N. H., $\$ 300$; S. \& J.,
of Cal., $\$ 20$; S. B., of Wis., $\$ 30$; J. L. G. W., of Mich., $\$ 15$; W. \& S., of Cal., \$5 ; G. S. M., of Pa., $\$ 25$; T. \& J., of Pa, $\$ 30$; C.G.P., of Ohio, $\$ 25$; T. G. G., of Ill., $\$ 25$; E. W. D., of Mase., $\$ 80$.
Specification ${ }_{s}$, drawings and mod ls belonging to paries with the following initials bave been forwarded to the Patent ties with the following initiang have beea forwarded
J. W., of N. Y.; W. R. S., of N. Y.; J. S., of Ill.; S. \& C., of Tex.; J. R., of La.; J. F. H., of N. Y.; A. H., of La.; M. D. D., of N. Y.; T. H. \& H. W. S. C., of Texas ; H. H. B., of N. J.; J. L. G. W., of Mich.; C. L. K., of Pa.; T. G. W., of N. Y.; J. S., of Obio; A. M,
of N. Y.; J. W. P., of N. Y.; E. M., of Mich.; A. C. M., of Vt.; W. of N. Y.; J. W. P., of N. Y.; E. M., of Mich.; A. C. M., of Vt.; W.
M., of Maine; W. \& S., of Cal.; R. D., of Mich.; G.S. M., of Ya.; M., of Maine; W. \& S., of Cal.; R. D., of Mich.; G.S. M., of Ya.;
K. V., of Maes.; S. L. O., of Conn.; H. G. T., of Mase.; E. J. H., of K. V., of Mass.; S. L. O., of Conn.;
Pa.; A. E. \& S. N. McC., of aine.

## Paragon coal oil burners.-TO manu-  liablity toget out of order, and ease of management; piving g larger blaze than any other burner. Lam ps mith the above burnar, patan. 

