## FIRST NEW ENGLAND IRON WORKs.

The first works for smelting iron ore in this country were erected in 1619, on a branch of the James river, Va., but were destroyed by hostile Indians in 1622. Bishop's "History of American Manufactures," says, that in November, 103 , hae
Goneral Court of Massachusetts granted to Abraham Shaw General Court of Massachisetts granted to Abraham Shaw
one half the benefit of any "coles or yron stone which shall one half the benefit of any "coles or gron stone which shall
bee found in any comon ground which is in the countrye's bee found in
Discovery was early made at Saugus, or Lynn, of the Bog Iron ore, which is deposited in numerous peat bogs throughout Eastern Massachusetts, and supplied the early ıurnaces of that colony ; considerable quantities of this were found in different places within a mile or two of Lynn, and the first attempt to manufacture iron in New England was made in that town. The great scarcity of iron ware and tools, and of iron for ship building and the erection of mills and dwelling houses; with a lessened intercourse between reat Britain and the Colonies, led Messrs. Thomas Dester, Robert Bridges, and other enterprising persons, to form a plan for the introduction of the manufacture in the colony. With this view, Mr. Bridges, in 1643, took to London some specimens of ore from the ponds of Saugus. In conuection with John Winthrop, Jr., who had preceded him thither two years before, a company was formed, calied the "Company of Undertakers for the Iron Works." It consisted of the following gent.lemen of wealth and enterprise, viz. : Lionel Copley, Esq., of York, England, Nicholas Bond, Thomas Pury, John Becx, W. Beauchamp. Thomas Foley, William reenhull, Thomas Weld (minister), John Pococke, William Beck, William Hickocke. The sum of one thousand pounds was ad vanced for commencing the work, with which Mr. Winthrop, accompanied by a corps of workmen, returned to New England the same year. Preparations were immediately made or the manufacture of iron on a large scale, contemplating not only the smelting, but forging and refining of the metal. The eneral Court was applied to for encouragement and participation in the business. The design was approved of, but the state of the public treasury did not warrant the As sembly in taking stcck in the company. Twoor three private persons joined the enterprise, and the eneral Court granted them, March 7, 1643-4, nearly all their requests, including
the exclusive privilege of making iron for twenty-one years, the exclusive privilege of making iron for twenty-one years, provided they made, after two years, sufficient iron for the country's use. They were allowed the use of any six places not already granted, on condition that they set up within ten sears a fnrnace and forge in each place, " and not a bloomery trom all pnblic charges and themselves and workmen from trainings.
A grant had been previously made in town meeting, 19th of 11 th mo., 1643, to Mr. Winthrop and his partners, and to their assiges forever, of about 3,000 acres of the common land at Braintree, "for the encouragement of an iron work to be set up about Monotcot river." This grant was not surveyed, however, and was notlaid out till J.nuarr, 1648. It was long a subject of doubt whether the first forge was at Braintree or at Lynn. Lewis, the historian of the latter town, however, asserts positively that the first works were erected at Lynn, on the west bank of the Saugus, upon land purchased of Thomas Hudson, near a chain of small lakes abounding in ore. The village was called Hammersmith, after the native town in England of several of the principal workmen. Large heaps of scorir point out the site of one of the most important, though for various reasons not very successful, undertakings of early colonial times. Operations were continued with variable succees for over one hundred years. Mr. Winthrop was ever a benefactor of his adopted country, and several of the workmen whom he introduced in connection with these works were not only of eminent ser-
vice in laying the foundation of New Eogland enterprise and skill, but left a posterity which has been identified with the manufacturing prosperity of different States to the present day.
In response to several additional propositions from the undertakers, the Court, on 13th November, 1644, granted them three years for perfecting the work and furnishing the country with all sorts of bar iron, providedinhabitants might become proprietors by paying within tweive months $£ 100$ each and an allowance to the adventricers for $£ 1,000$ already disworks to good perfection, as well the finery and forge as the fnrnace, which is already set up, that so the country may be furnished with all sorts of barr iron for their use at $£ 20$ per tun." A grant of three square miles of land was at the same time made them in each of the six places they might occupy, etc. On the 14th May following, the records state that, "whereas it is now found by sufficient proof that the iron worke is very suceessful (both in the richness of the ore and the gaodness of the iron). and like to be of great benefit to the whole country, esperially if the inhabitants here should beinterested therein in some good proportion (one half at the least)" etc. They were invited to take stock in the business. Twelve to fifteen hundred pounds had then been expended, the farnace built, a good stock of mine, coal, and wood provided and some tuns of sow iron cast, and some preparations had been made for the forge. About $\$ 1,500$ were required to finish the forge, which was to be paid to Mr. Henry Webb, of Boston, subject to the direction of the undertakers, John Winthrop, Jr., Major Sedgwick, Mr. Henry Webb, and Mr. Joshua Hewes. Colonists were about this time publicly noti fied that they could join the enterprise if they wished. The partners above named were probably of the number who united with the company in America. Mr. Webb came from Salisbury, England, in 1638, and afterward became a wealthy
merchant of Boston. He was a large proprietor in the iron works, and was distinguished for enterprise and benevolence. In October of the same year, a charter with ample privileges, embodying the previous grants and conditions, was mada out and delivered to the undertakers, under the public seal of the colony. It confirmed to the company the monopoly for wenty-one years of the sole privilege of making iron and anaging all iron mines they might discover, and granted them all waste lands not appropriated, the use of all wood,
timber, etc., to convert int') coals and earth stones, clay, etc, for the use of the works, forges, wills, or houses built, or for making or molding any a a anner of guns, pots, and all other cast iron ware, and for converting wood into charcoal, etc., etc. They were allowed to export any surplus to any part of the world except to enemies.
On the 29th September, two days previous to this grant of privileges, the first purchase of lands, consisting of twenty acres, for a forge at Braintree, was made from eorge Rug gles by Mr. Thomas Leader, who came from Enஜland as gen ral agent of the company. The precise date of the erection of the forge at Braictree we do not find stated, but it fol lowed soon after the other. Mr. Winthrop, on 29th May, also recei sed permission to make a plantation and lay out a site for iron works at Pequod (New London)-to which place he removed in 1646-provided he could find suitable $p \neq$ rsons to effect it within three years. The works both at Lynn and Braintree belonged to the same company.

Johnson, a contemporary, in allusion to the enterprise, speaks only of the latter place, and quaintly refers to some of the difficuliies experienced at the outset. "The land affording very good iron stone, divers peraons of good rank and quality in England were stirred up by the providential hand of the Lord to venture their estates upon an iron worke,which they began at Braintree, and profited the owners little, but rather wasted their stock, which caused some of them to seli away the remainder, the chief reason being the high price of labor, which ordinarily was as much more as in England, and in many things treble; the way of going on with such a work here was not suddainly to be discovered, although the steward had a very able eye, yet experience hath out stript learning here, and the most quick-sighted in the the 3 ry of things have been forced to pay pretty roundly to Lady Experience for filling their heads with a little of her active after-wit ; much hope there is now (1651) that the owners may pick up their crumbs again if they be but made partak ers of the gain in putting off England commodities at N. E. price; it will take off one third of the great price they gave third is taken off; the abundance of wood had for little will surely take off the residue, besider land at casie rates, and common land free for thtir use." It was the desire of the rulera, he states, to protect the company from loss at ayy sa crifice. The court, however, in reply to a leiter from the
proprietors in 1646, acknowledge the importance of the manufacture to the country, both for domestic supply and for ex portation, but as an axe at 12 d . was none the cheaper to him who had not 12d. to buy it, "so if your irsn," they add, "may that be to us if wee have no money to purchase it." The scarcity of specie is said to have been a principal difficulty in to pass into other hands. In August, 1648 years a te wrote from Buston to his son at Pequod, in relation to it: "The iron work goeth on with more hope. It yields now bout seven tuns fer week, but it is most out of that brown earth whict lies under the bog mine. They tried another mine, and afier 24 hours they had a sum of about 500 , which when they brake, they conceived to be a fifth part silver There is a grave man of good fashion now come over to see how things stand here. He is one who hath been exercised in iron works." On 30th September he again wrote, " Mr Endicot hath $f$ und a copper mine in his own ground. Mr Leader hath tried it. The furnace runs 8 tuns per week, and their bar iron is as good as Soanish. The adventurers in England sent over Mr. Dawes to oversee Mr. Leader, etc., but he is farshort of Mr. Leader. They could not agree, so he i returned to Tener:ffe."
The iron works at Lynn involved heavy outlays on the part of the company, the majority of whom were too distan but litcise a prover supervision. They consequently yielded ages to neighboring property by overflow of the pond, and in 1671 the cam was cut a way after which they were conducted on a smaller scale. In the hands of the old company they were more than once attached for debt, and suits were frequent against the proprietors. In 1677 they became the property of Samuel Appleton, who sold them a hout ten years after to James Taylor, who, we believe, was the last proprie tor. They were not finally abandoned until the lapse of over a century from their commencement.

## Spontaneous Combustion in Theaters.

In No. 5, current volume, we published a few facts in regard to the circumstances under which spontaneous combuszette says:

I was lately conversing with one of our most eminent scenic painters upon the late catastrophe at Her Majesty's Theater, and he gave his decided opinion that the accident proceeded from spontaneous combustion. He stated that large heaps of the debris and refuse of the painting and property rooms were often swept up together, and left to accumulate for years, and that he had often had reason to complain of this practice, and to point out the danger of it. He related one instance in which such a heap had stood in a theater for
authorities to ramove it, and the moment a spade was thrust into it it burst into fiames. I see that in the Times a corres pondent puts aside spontaneous combustion because scene painting is done with water color, which is not inflammable; but the danger, though sometimes existing even in the paint ng r om, lies more particularly in the property room, whore varnish and oil colors are largely used, and where ecraps of oiled rag, tow, varnish, sawdust, and fiue; or fluff, are swept up, tngether with other matters. This only requires to be damped, as is not an uncommon practice, for the purpose of aging the dust, to inducz eventually spontaneous combus tion. My informant also pointed to tbe case of Astley's The ater, which he stated was burnt down somewhat in this way, from the sweeping of the sawdust and stablea; and from his experience, which is very great, he felt certain that many other theaters had been so burnt."

## Ventilation.

The great importance of ventilation in our sitting and sleeping rooms, in our schools and public halls, is not sufficiently appresiated. It was well set forth in a recent lecture by a Cleveland professor. It is startl ng to learn the amount of carbonic acid emitted from the lungs of one person, or from a single gos burner ; enough to poisnn the whole atmos. phere of a good sized room in a very brief period of time. How many persons think that winter temperature demands the exclusion of fresh air to make their apartments warm and comfortable, when the fact that in the cold season we consume wore oxygen, and consequently exhale a greater quantity of the poisonous carbonic acid gas, should lead to a directly opposite course. A bed room in winter requires more ventilation than in summer, and the non-observance of this act will readily account for the awful diseases to which frail humanity is subject.
We wonder if many of our readers are aware of the poisonous exhalations incident to a coagregation of their "fellow citizens," in ball rooms, churches, and lecture halls. If they have not full- considered the vast importance of thorough ventilation, let them take these undeniable facts home to their serious thoughts. A person in health has eighteen breathngs per minute, and thirty-five hogsheads of air pass through the lungs in twenty-four hours. Of this, from three to five per cent, or about two and a half hogshears, is exhaled as arbonic acid gas, and thus one person would render two or hree hogsheads of air unfit for breathing again. Let every person anxious for the preservation of his bealth take care hat the windows of the dormitories are dropped a little, even during the winter nights. There is far less danger of taking cold than there is of inhaling the noxious atmosphere, which saps the health, undermines the constitution, and embitters ife with suffering and isease that might have been avoided. - Exchange.

OFFICIAL EEPORT OT
Patents and Chams
Issued by the United States Patent Office,
for the week ending february 18, 1868.
Feported O.flctally for the Scientific American.


 74.476 - Lobricators fok Axles, and Mode of Attaching









 74, 478 . - Muvzle Loading Ordnance.--Frederick W. Alexle Loading Or
74.479.-SpRiNg CUP Toy,-Horace B. Ames, Great Barring
scrind.
 44,480.- SAFETY Valve.-Horatio Anderson, Chicago, Ill.


74,481.-TinNERS' DEe.-P. W. Armstrong, Logan, Ohio.






 Ient, sibstantialy as shown and described and for the purposes set forth.
 Tcill






 $7_{4,488 \text { - - GEARINA. - Asa M. M. Beard, }}$ Hillsboro, N. H.

74,489 -Wood Screw.- Jason A. Bidwell, East Boston, Mass





 74.492. Seve, P̌ P.

 2nd, 933 , he purboses set forth.












 74.497.-SCROLLL SAW.- - D. J. J . Camp, Mar on, Ohio.




 7, poor fump. - Taylor Chamberlin and T.Elwood Garrett,


 74,502- - Wabriva Machine.-Alvin B. Clark and Charles





 ${ }_{7} 3$, ,

 74,506.-Machine mer Cotting Rage.-John Collins, Jr.,







 operating substantialivin the manner and for the purpose set for
$7409 .-C A R D ~ S A F E .-C h a r l e s ~ © . ~ C r a n e, ~ E e l m a, ~ \Lambda l a . ~$
 7, C10.-SEAT ARM FOR RALLROAD CHAIR.-William $G$.
 74.511.-THREE-WHEELED FARM WAGON.-E. T. Crockett,








 74,515-GRain DriLL,-Charles F. Davis, Auburn, N. Y.
















 74521 -SAw.-James E. Emerson, Trenton, N. J.
 $74,522 .-$ SAW. James E. Emerson, Trenton, N. J., and Wil



 74,524.-WindLass-Porter Evarts, Madison, Conn.










 74,529.- , FARM GATE.-C. Eugene Good win, Portland, Mich







 fit, $\mathrm{H}_{\text {wis }}$ - - Hemmer, Marker, etc., For Sewing Machine.

 4,534,-Car Ventilator.-M. T. Hitchcock, Springfield,

















 74,539.-Horseshoe.-N. W. Hubbard New York city

 74,540- COMSTRUCTION of TAN VAT.-Joseph Huber, Buffa-







 74,54. - Neck Yoke.-Thomas J. Jones, Rochester, Mich.,

 ${ }_{74,545-P I C K E R ~ F O R ~ L o o m s .-R u f u s ~ J o s l i n, ~ P a w t u c k e t, ~ R . ~ I . ~}^{\text {Pa }}$



 Fraai- Cunstroction of Sea


 74,549--Ditching Machine--Jacob King (assignor to him-


 ${ }_{74} 550$. H ARVESIER OUTTER, - Thomas Knowles, Robert

74,551 vin -Sistiee, Bed and Table.-Charles F. Kramer, Mon-
















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 84.553.- Breach Laading ORNANCE.-Lucius M, Lull and


74,558- Portable Chamber Closet.-William J. Lyman,
 ${ }_{74,559-\text {-BRAKE FR }}$ VEHICLES. - Horrace B. Marshall, Wal



 74,561.-EDCE PLAEE.-Charles D. McAuley (assignor to



 74,562 .- NEWSSPAPER File.-Louis P. McCarty, San Fran-
 Iclaim, 1st, soconstructing a wick tube that either round or fat wick can













 ${ }_{7}$ purfose















 74,574-COMBINED CANE MILL AND STEAM EnGINE.-John














 74,579.-CARRIAGE W HEEL.-T.Nevison,
74, M79.-CArgan, hio.


 ${ }_{74,581}^{\text {forth }}$-Wagon-pole Support.-Don Carlos Newton, Ba-
 means of the cain, D.
 84,583.-STEAM-ENGINE VALVE.-Wm. Ord, Brooklyn, Ohio.
 andualy as epectiod ith the above, the screw, H , and springs, S , substan

 machine, substantialiy as described

 74,586. MACHINEFOR COTTINGAND SEPARATING DYE Woods.






 set forth. ne artile of manufactare, the composition, substantially as here
in deseribed in diserribed and for the parposes set forth



 74, sogo-Brick and Mortar Elevator.-Anthony Pohl,
 897, podi.-Shackle for Platform Springs of Wagons.-J.


 77,593.-Valve for Steam Engine.-Joseph Reichmann,


 74,594- - Breecci-loading Fire-Arm.-S. S. Rembert, Mem-







 Ifleld, Mass.
I ctallic plut having one or more valve seats therent, and on
 ithem.-Plate Lifter.-G. O. Roe, Conantsville,Conn. An
 74,599 - Boots and Shoes.-Evan T. Rogers, San FrancisI colim making the ridge on the markers by casting them in one piece wit the plate, substantialy as deacribed.
 74,601. - Pulers for Bending Sheet Metal.-Maiér Roths-















 74,605.-MEAsuring Fa Fcet.-Frank Saunders, Aberdeen


 74,606--Composi'TIIN For Roofing.-Henry K. Schanck

 Ae Seely, and Charles J. Eames, New Yorknity





 scribed.



 citied. Engag ing and disengaging both clutches by movements of the same
handhe in the same drection, substantially as deseribed. 74,610. town M.
STTTOON FOR CARS. - J. H. Seymour, Hagers-

 74,611.-MANUFACCURE OF TII LINED LEAD PiPE.-William


 1ng fthe connection
74,612 . - MAN UFACTURE OFTIN-LINED LEAD PIPE. - William







 74, ,613.-MANOFACCURE OF TIIN.LINED LEAD PIPE.-William








 $4,617 . \rightarrow A N I M A I L T R A P$.-James A. Sinclair, Woodsfield, O.



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 nd for thepurposesppecifed.
$74,619 .-$ MIODE OF BELTING Tobacco.-Reuben T. Sitterley, I calaimaw the connty, Mo constioction and combination of the blades, as herein de-cirrbed.-Hossessioes-George W. Skinner, Rockford, IIl.

 ${ }_{7}^{7}, 6,61 .-L A T H E$ Red Rest.-H. K. Smith, Norwich, Conn.
 I claima, meicical compound, comprising the ingredients about in the pro.
 Pastantially as and nd or the purpose describe


 4,625.-Beer Faucet.-J. Michael Stark, Buffalo, N. Y.

 $\mathrm{S}_{2}$ dif the purpose herent specified.


 74,627.- BEEHVVE.-H. A. Stidger, Carrollton, Ohio




74,688.-Bureat Bedstead.-Mirum Sulzbacher, New York
 ${ }_{7}^{8}$
















 seribed.
74, mbis.-Peat Machine.-Josiah Tisdale,
, South Dedham,




 $74,638$. . Pomp.- Jas. Vaughn and John McGee, Galena, Ill.










 ${ }_{7}$ substantiallyas deseri bed.







 74, 7 , 47 .-Colinary Boiler.-Isaac H. West and Tertius L

 74, f48.- Oil Burning Apparatus.-A. J. White, Ballston







 74,551-COMBRED SEEDSOWER A ND FIELD HARROW.-Dan-











 74,654-APPARATUS FOR VIGNETING PHotocraphic NEGA

 74,355--VENTILATORS.-H. B. Worth, Chicago, Ill., assignor

 74,656.-SAFETY VALTES.-Jearum Atkins, Mokena, Ill.


 C, substantially as sbown and deseribed. Herret, New York city.



 74,659.-BOILER FEEDER.-Edwin Brockway, Haverstraw,
 enterigi the steam pipe.












74,666.-Device for Turning Down and Burying Stalks,
 ,

 74,668 . - Wood Bending Machine.-James Conner, Rich-
 \%rthandrortiepurpose specitide Hanah Cunwar, Dayton, Ohio.




 ${ }_{84}$,6th72.-Spring for Hooped Skirt.-Thrs. B. De Forest


 Spelificd. Blaching Brosha-J. H. Doughty, New York city


ת4,675.-Sprivg BED Botton.-Wm.I.Emens,Louistille,Ky.
II clatm the combination of the torked hook, E , and the that, F, the' Eum



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74,679.-Plow Mold Board.-Richard Gaines and Melchi


 74,680--Medical Compotnd.-G. W. C. Gamble, Millers-




 74,683.-Exercising Apparatus.-Geo. W. S. Hall, Balti-


 74,685.-HARVESTER-B. G. H. Hathaway,Rock Stream,N.Y






 $74,688$. SSCHoct Desk. -Geo. W. Hildreth, Lockport, N. Y













 the roje cess herein sel fortb. Cotting Glaziers' Points.-James





 sion had deseribed ad arranging the sald hook and suutle, and the eve.















 brta, A mecoanaical movement for lam p, its several parts constructed and
arranged and operating substantally as described. 74,696.-PLATFORM SCALEE.-Joel F. Keeler, Pittsburg, Pa.


 arranged sobstatially as hereln betore deecribed.
74,698.- FITTERING Burning Fuid. -John D. Kirkpatrick,

 74, M199.-Pouth Mico DigaEr.-Gottlieb Koenig and Geo. Otto,
 74,700.-Puncring Apparatus.-Isaac Lamplugh, Peoria,





Witht he eset screws, k and c , and the rotating shaft, b , substantially as de
scriv.
the
 grindstone, 1 , and rutatisg and sliding shaft, b , as and for the purp
74 fad
70 ,
 74, 703 .-Hay and Cotton Press.-C. Lent, Washington,
 74,704.-COMBINED CLOCK AND ADVERTISER.-G. M. Levette,






 torthe purpose set forth.
74,706 .







 inrames and the h.ve, A, as and for the purpose set torth.
74.710 .-CorN PLANTER.- Josephus Noore, Bushnell, Ill.








 action of the nammer and the straight side of said block torward of the hol-
lowed part, m, , oubtatialy ad described.
74,713.-CLOTHESLINE CLAMP.-G. R. Nebinger, Lewisberry,



 car, A, in combination with the latch, a, and rode D, in the manner and for
toe purpose set fortb.
74715 . Cio










 past each other, and the ofber part turns over to one side and hroks into the from being withdrawn.
74 , 719 P19-- GRAIN Wrighing MACHINE.-Heriy Pooley, Henty








 ${ }^{8}$ 8et, 1orth. 720 . Pen.-E. L. Pratt, Boston, Mass.

deescrited.
 74,722.- BUTTER Dish. - Ira A. Richards, Brookfield, Mass.
I cisim the cap, E, hingedatapoint, d, above the center of the bearing


74,723.-TRUNK.-Ed ward Semple, Chicago, I11.
 $74724 .-$ Spacingand Boring Machine.--James M. Seymour


 74, 7 Waiter Shep perman, Pittsburg Pa





 poste dir chions, substantially as and for tie purposes deseribed









 74,731.-MACHINE FOR GRINDING THE CUTTERS OF HARVEST-





 74,733.-Preserving EgGs.-Aaron Van Camp, Washing.



 ced


 the purpose descrived.
int af arranging and operating the knife by means substantally as deciriod. Feed Water Heater of Steam Generators.-


 , UF. Crorrior Drsprs. EMC.-Edmund G. Wayman (assignorto Rober











 fis described. Colored Printing Press.-George W. Wood (as.




 REISSUES.
,899-MANUFACTURE OF METALLIC Square.-Samuel Dar-



 2,870-MACHINE For Weighing AND BAGGiNG GRaiNM-




 bingtion of an automaticrake, with the platform of a harvest












2935.- Нat Rack.-H. P. Conant, Boston, Mass.
,930.-Frutr Jar.- Thomas Houghton, Phiadelphia, Pa. 2,937.-InKstand, Sponge COP, AND PEN RACK.--Thomas 2,938.--FLoor OII Clooth Patterti-Albert E. Powers,


PENDING APPLRCATHONS TOR BEISSEES.

## pplication has been made to the Comm.ss,oner of Patents for the Reissue a

 the following Patents, with new clams as subioined. Parties who desireto oppose the grant of any of thesereissues should immedaately address to oppose the grant of any of
MUNN \& Co., $\overline{3}$ Park Row, N.
70,806--SILENT BoL'T FEEDER.-Jacob Cornwell (assignor to
 ${ }^{\text {Is }}$ filour, the reve reving platorm

 43,376.-Sugar Mold.-Theodore A. Havemeyer, J. Law-






 5 the Th icee as deescribed 6tit, Hilngingthe id so as to rotate from the inside of the body, asde. 70,523.-Apparatus fou Rasing and Secoring the Legs









 Nors.-The above clatms for Reissue are now pending before the Pat



## Inventions Patented in England by Americans.

FROVISIONAL PROTEOTION FOD BIX MONTH8.
2- Firg and Ruralar Proof safe.-Benj. Sberwood and Daniel Fitzger
ald, New York city. J.in. 1, 1868 . 18.-Cihurn.-Milton A. Hamilton, Detroit, Mleb. Jan. 2, 1868.
 Yoris citybinang. Jr, 1868 .




 98.-Apparatugror Siming Books for Binding.-Heary G. Tbompson,
New York city. Jan. 10 , 8668 .
 123.-Spirit Level.- G. G. Jullan, New York city. Jan. 14, 1868. 131.-Composition For Furnaos Liningas, Fire Brioxs, eto.-George
Niumo, Jersey City, N. J. Jan.15, 1366 .

 170.-Hay Cuttrer.-Geo. S. Fisher, Buffalo, N. Y. Jan. 17, 1868. gis, Micb. Jan. 18, 1863.



