
${ }_{\sim}$ Our weekly List of Patents and Designs con－ tains every new Patent，Re－issue and Design emana
tingfrom the Department，and is prepared officially expressly for the Scientific American，and for no oth
ent expressly for the city，consequently other journals ar or paper in the city，consequently other journals are
obliged to wait the issue of the＂Sci．Am．＂in order to profit by the expense to which we are subject，and of course must be one week behind．Those publish－ ers who copy from this department in our columns， will，in justice to us，give proper oredit for the same．

LIST OF PATENT CLAIMS
issued from the united states patent opfice，
For the week ending June 18， 1850. To E．Bookhout \＆H．Cochon，Jr．，of Williams－ barg，N．Y．，for
ishing morocoo．
What we claim is，first，a sliding head with finishing tools，one or more attached，said tools to be held down by weight or springs；said sliding head to do its work while in a back ward and forward motion，and running on straight ways，as herein set forth．
Second，we claim as our invention the ap－ plication of one or more clasps，for the pur－ poses described，in combination with one or more finishing tools，whone motions are para lel with said clasps．
We also claim the application of one or more finishing tools which are held stationary whil rubbing the skin or paper and allowed to re volve a little when required to equalize the wear on the peripheries of the same．
To Z．Breed，of Weare，N．H．，for improvement in spring－teeth of hay rakes．
I claim the construction of the spring testh of the hay rake of a double wire，in place of the single one generally used，as described in the specification．
To J．M．Brown，of Bloomfield，Ohio，for improve－
ment in attaching neck－yokes to poles of carriages． ment in attaching neck－yokes to poles of carriages．
I do not claim the universal joint merely of itself，but I claim as my invention the mode herein described of constructing the neck yoke， either solid or divided，and fitting the tongue or pole of the carriage，and these so construct－ ed and fitted，in combination with the mova－ ble band on which are projections or knobs，by which means the whole are securely connected， and thus form a universal joint for the purpose stated，and not otherwise．
To G．Chilson，of Boston，Mass．，for improvement

## in Parlor Stoves．

I claim the arrangement of the fines，in com－ bination with the fire chamber，substantially in the manner and for the purposes set forth To E．H．Collier，of Scituate，Mass．，for improved method of making nails by rolling
I claim the auxiliary furnace，in combina tion with the machinery for rolling nails，\＆c．， as above described for retaining the heat of the plates or rods of iron，while they are separate ly passed into the machine．
To R．Eastman，of Coneord，N．H．，for improve－ ment in machines for dressing stone．
I claim dressing stone by means of chilled cast i．
To B．Fowler，of Lubec，Me．，for improvement in
furnaces for calcining gypsum．
I am aware that apparatus for various other purposes，has been divided into several cham－ bers with various arrangements，and that beams and slides of various forms have been used，and that tubes have been used for con－ ducting and encouraging heat，I therefore do not claim either of these as such，as my in－ vention，but what I claim as my invention is the combination of the pan，or boiler，with the three chambers，when they are combined with the beams，slides and dampers，when the whole is constructed，arranged，and combined， so as to operate substantially according to the method，and to effect the purpose，substantial－ ly as herein described．
To A．M．Geo
Spike machine．
I claim，first，the rising and falling guide and cutter frame，in combination with a mo v ng series of dies whereby the spike rod is
guided into the moving dies and a slip of pro－ per length cut off to form the spike，the knives being operated by levers which force them to－ wards each other whenever the movement of the frame brings the levers in contact with stationary armis projected from the main frame． Second，the forked and hinged clamp，con－ structed substantially as herein set forth，in such manner that when open its inner fork forms the office of a guage，to regulate the length of the spike，and when closed its outer forl gripes the shoulder of the spike during fork gripes the shoulder of the spike during
the heading，and its inner fork is withdrawnto allow the formation of the point．
Third，the combination of the arm，with the clamp，and its tongue by means of which the heading，griping and pointing of the spike are effected substantially as herein described at one operation．
To L．Gilbert，of Boston，Mass．，for improvement in upright pianofortes．
I claim，first，combining with each of the standards of the frame－a sustaining and strengthening rod，arranged in a curved groove in the back of said standards，and operating in the back of said standards，and ope
substantially as herein above described．
ubstantially as herein above described．
Second，I claim connecting the stem to the rocker bar，fastened to the key lever，as de－ scribed，and also the horizontal arm on which the jack，\＆c．，is supported，by which the whole action becomes attached to the key lever，and the hammer is made to return when the end of the key lever descends，all as herein above set forth．
I also claim combining the catch with the fy of the jack，as above set forth，and in com－ bination with a jack and back catch，so ar－ ranged，the curved arm projecting from the hammer stem，and having a regulating but－ ton connected to said arm，as above set forth．
Lastly，I claim regulating the throwing off Lastly，I claim regulating the throwing off from the centre block of the hammer and be－ ow its centre of action，in combination with a regulating button passing through the fly of the jack．
To B．K．Maltby，of Cleveland，Ohio，（Assignor to Ira M．Mead，of Mogadore，Ohio，for improvernent in pparatus for raising the grate in cooking－stoves．
I claim the apparatus for lowering and rais－ ing the grate，so constructed as to act without liability to obstruction from the baking of ash－ es between the parts of machinery，having liding pieces or racks furnished with perfora－ tions instead of cogs，in combination with pinions acting upon them by cogs，said pinions having the spaces between the cogs beveled bringing them to a kind of edge，thus admit ting no flat spaces to intervene where ashes may accumulate to prevent the working of the machinery．
To W．W．Marston，of New York，N．Y．，for dev ces for moving and holding a piston breech－pin．
The several parts used herein，being all well known，I do not intend to claim any one of them herein as my invention，but I do claim as new and of my own invention，the arrange－ ment of the parts described and shown，in which arrangement the radius bar is connected to the rear end of the sliding breech－pin，by a tenon and slot，taking a pin on the jaws，at the rear end of the breech－pin，for the purpo－ ses of holding the breech－pin in place while the charge is exploded，removing the breech－ pin to receive successive charges．and forcing the charge into the barrel by replacing the breech－pin for the next successive discharges，
the whole constructed，arranged and acting substantially as described．
To N．Post，of East Cleveland，Ohio，for improve ment in Safety－stirrups．
I claim the safety bar，and the spring ar－ ranged in the form set forth，or in any othe orm，substantially the same in principle． Second，the arrangement of the loop cap by which I place the stirrup bars at right an gles with the stirrup strap．
Third，the flat bar rising from the top of the loop，to prevent the rolling of the stirrup in the strap．
To J．Sherlock \＆Wm．Brackbill，of Portugal，Pa for improvement in feed apparatus for mills．
We claim the feeding apparatus，as descri bed，for keeping a regular supply constantly fed to the grinding surfaces．
ments in apparatus for parti－coloring y．，for improv
I clam the method substantially
described，of parti－coloring yarns by winding them on reels arranged in frames so construct－ ed as to admit of immersing in dyeing liquor such portions of the yarns as are desired to be dyed and shifting the same for dying other parts in like manner，substantially as descri－ bed．
And I also claim connecting one or both of the reels in each frame by means of slides，to admit of removing the reel from contact with the yarns，whilst in the process of dyeing，sub－ tantially as specified．
ToJ．R．Stafford，of Cleveland，Ohio，for improve－
ment in mills for ont in mills for grinding
I claim the combination of crushing rollers with a disintegrating apparatus，arranged and operating substantially in the manner and for the purpose as herein set forth．
To J．F．Woud，of Homer，La，for
guide tooth with an inclined scraper．
I claim the guiding tooth or revolving cutter combined with the inclined scraper，substan－ tially as above stated，for regulating the course of the machine．
designs．
To E．P．Penniman，of Rochester，N．Y．，for de－ ign for stoves
To J．F．Rathbone，of Albany，N．Y．，for two de－ signs for stoves．
To J．Wager，David Pratt \＆V．Richmond，of Troy， N．Y．，for design for stoves．
Manufactures in the United States．
A recent number of the London Globe con－ tains a splendid article on the present depress－ ed state of＂American Manufactures，＂which is corroborative of all the ideas we have thrown out upon this subject，the root of which is ＂the imperative necessity of northern manu－ facturers making finer goods if they would hope for success．＂The present state of north． ern manufactures is attributed justly to the high price of cotton．It says，＂it is only in the production of that description of goods in－ to the market value of which the cost of la－ bor，of skill and of capital，enter most spa－ ringly－in other words，of such fabrics as may be classed nearest to the raw material－that the American manufacturers can compete with us．These，when required for a voyage to China，as well as when wanted for consump－ tion in the States，may be had there about as cheaply as they can be brought from England． But this advantage，resting wholly on the price of the raw material，is，of course very seriously affected by a failure of the cotton crop．Such a failure is of gomparatively small importance to manufacturers who are increas－ ing ten－fold the value of every pound of cot－ ton they take in hand．To double the price of the raw material is，to them，only to increase the cost of the finished fabric by one－tenth and the check to consumption，and to demand， coming of the rise in price，they feel in propor－ tion．To the manufacturer who is tnrning out the cotton only three times as valuable as when he receives it，the effect is to make a rise of the selling price，in the proportion of four to three，absolutely necessary to prevent loss．－ And it is hardly necessary to say that a rise of 33 per cent on coarse goods is likely to check their sale much more than a rise of ten per cent．would check that of goods of a finer de－ scription．Similarly，the maker of fine cutlery cares hittle for a rise of 50 per cent．in the price of iron；but it may stop the business of the maker of heavy goods，and even ruin con－ actors for large works in cast iron．
The precarious position of the New England manufacturers is further illustrated by the re． centgrowth of rival factories in the Southern States．It is said that there are now nearly a hundred cotton mills at work in the four States of Georgia，Tennessee，South Carolina，and Alabama；and the number is increasing．We can very well believe it．It is not improbable －seeing that the only natural advantage poss－ essed by the New England manufacturers are almost equally within the reach of their South－ ern rivals，that two－thirds of the manufactur ing of cotton capable of being carried on with－ in the Union，at a profit，will within a few years be carried on in the Southern States．－ The latter have cheap labor，for they have slaves．On the other hand，slave labor has never yet been extensively，or systematically，
combined with any appreciable degree of me．
chanical skill．If the Southern planters con－ trive to carry on with it any but the rudest and most simple process，they will develope an entirely new phase in the history of slave la－ bor．Yet within its limited range we do not doubt that they may make up，more cheaply than it has yet been done in the New England States，the greater part of the heavy fabrics hitherto made there at a profit．
To us，in Old England，however，we firmly believe that the issue of this contest，or of any－ thing the American people may do to contra－ vene the natural course of trade by protective duties，is of very little consequence．It is only with regard to the operation；and only as to a small proportion of these；such，namely，as to which the natural advantages we possess（with regard to capital，skill，and labor，balanced against their advantage upon the raw materi－ al and cost of carriage）are the smallest－ With the most highly mainpulated goods they have no chance of sucess，and were they to increase their protective duties five－fold－if only because the cost of evading duties levied on frontiers like those of America，must always be low，especially for goods of small bulk and weight，not easily da maged in transit．
That the Americans can make some cotton goods cheaper than we can is clear－for they meet us with some in foreign markets．But is their advantage in the fabrication of the coars－ est and heaviest kinds of cotton goods，found－ ed as it is upon a fair natural advantage，to be regretted？We think not．Quite the con－ trary．＂
［On another column of our paper will be found a huge list of cotton factories now in the South．These can and do make coarse goods cheaper than our northern factories，con－ sequently they will overthrow the coarse goods manufactures of the North．Believing this to be true，we dissent from the views of the London Globe in respect to the manufacture of finer goods．The success of a few factories which we might name，in the manufacture of finer goods than the general run of such fab－ rics，is a sure evidence to us of still greater success in the manufacture of much finer goods．The monopoly of the best raw mate． rial for this purpose，is as necessary as the extra labor and finer machinery required to produce qualities of goods，to compete success－ fully with Manchester and Glasgow．
A New Form or Mesmexism in Clooks．
It is said that certain clock makers at Bris－ tol，Connecticut，in making some chronometers lately，found it impossible for the workmen to seep a wake when they were setting the instru－ ments agoing．It is necessary，in regulating them，to count the beats in a minute by a re－ gulator，change the hair－spring until both go nearly in time；then the screws in the balance are turned until the greatest maxium is ob－ tained，when they are rated and the ratere－ gistered．The workmen find no difficulty with the parts，but when the whole movement is going，any person who sits down and counts the beats，or watches the motion of the bal－ ance，invariably becomes drowsy．Attempts have been made with other clocks，but they do not produce the same sensation．The clocks are of polished work，and gilded by a peculiar galvanic process，which，if the facts be as here stated，may have something to do with the effect．What is curious is，that the person who is put to sleepcontinues to count the bea－ tings of the time with his hand or foot．－［Ex．

Strength or the Sword Fish．
Another illustration，says the New Bedford Mercury，of the well known power and agility of the sword fish，the formidable enemy of the whale，was discovered by the workmen en． gaged in reparing the brig Leonidas，whaler， at this port，a day or two since．In searching or the cause of a leak which had occured du－ ring her last voyage，it was found that the side of the vessel had been penetrated quite through，including the copper sheathing and wo thicknesses of solid oak plank，not lees than five inches；by the sword of one of these fish．The sword was about twelve inches in length，and had produced a seam by splitting smoothly at the side af the vessel

