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## hist of patent claims

Issueil from the United Stated Patent Office．
for the weex endina august 26， 1851. To David Allan，of St．Louis．Mo．，for improve ment in Washing Maohines．
I claim the chamber or tub，with its narrow－ ed neck and otherwise constructed，substan－ tially as described，in combination with the plunger，which latter，with the clothes wrap－ ped round it，passes through the narrowed neck of the chamber，and pressing forcibly on the water confined within the body of the cham－ the water conined within the body of the cham－
ber，drives it violently in the direction of the arrow，and through the body of the clothes，car－ rying the dift with it．
ToHiram Carver，of Edinburgll，Va．，for improve－ nent in Cabbage Cutters．
I claim the two vertical bars confined to the aides of the feeding box，so as to rise and fall with the movement of the feeder，said virtical bars having handles liy which the operator $4 c$－ tuates the feeding lox，and by the pamo crer－ tion of his arms，renders the material self－ feeding，oimultaneoiuly with the reciprocating motion of the feed box．
To B．Gillet \＆L．Allis，of Hartfurd，Conn．，for im－ rovement in Self Acting Cheese presses．
We claim the combination of the falling frame with the toggle joint levers and the fixed eccentric wedge，acting togother and making the upward movement and pressure substan－ tially as set forth and described．
To James Harrison，of Jamestown，N．Y．，for im－ rovement in Dental H）draulio Cups．
I claim the construction of said machine of two or more plates，with vacancies between the same，and with pipes connected thereto． I also claim the application of water，or any suitable liquid，to the upace or vacancy between the plates，for the purpose of harden－ ing and rendering more firm the contents of the cup while on the jaw．
I claim nothing for the outward form of the said plates，nor for the application of the same to the mouth，merely to take impressions．
I also claim the method of using the gate， as described．
To Jonathan F．Oatrander（assiguor to A．B．\＆C． To Honathan F．Ostranu York，N．Y．，for improve E．Hutchinson），
ment in Rotary Harrows．
I claim the use of the combination of the spur－wheel，with the hollow axis，for the pur－ poses and in mole of construction substan． tially as set forth，and their combination with the circular frame，having the face，cog－wheel， and arms attached，for the purpose of produ－ cing a rotating harrow，subatanticlly in prin－ ciple of construction as set forth．
To Geo．McGregor，Robt．Lee，and Thos．G．Clin To Geo．McGregor，Rout．Lee，ad Padock
We claim the combination of the bolt and cavity on the rotating end of the hasp， with the tumblers（two），having the charac－ teristics described，or their equivalents，the tumblers，hasp，and bolt constituting a sys－ tem of fastenings within and without the ca－ sing of the lock，the whole being arrangedand operated substantially as described．
To P．H．Niles，of
Adjustable Tool Haft．
I do not claim the gripe as any novelty，but I claim the mechanism by which its jaws are closed，the same coisisting of the eccentric groove，the pin，and the revolving tube，as described．
To G．W．Otis，of Lynn，Mess．，for improvement in Insulatol f for Lightning Rods．
I claim the insulated support and point for 4 lightning rods，consisting of the insulated print and opening in its shank，the insulating
cylinder of glass，with its lip or flange，and
the wooden collar for securing the whole to the wooden collar for securing the building，all as described．
To Horace Smith，of Norwich，Ct．，（assignor to C Palmer，of New York，N．
Breech loading Fire－Arms．
I claim operating the breech－pin directly by the finger lever，as described，in combination with the breech－pin and abutting lever，formed and operating substantially as described and for the purpose specified．
I also claim elevating the charge lifter by the direct contact of the breech－pin carrier， with an arm of the lifter lever，and depressing it by the direct contact of the finger lever， with the ot
described．
To David Tilton，of Stoneham，Nasn．，（assignor to mprovement in Padlocks．
I claim the combination of the turning hasp or contrivance，the tumbler and the slide，and its projection，or any mechanical equivalents， the whole being－made to operate together，sub－ stantially as described．
To Samuel Brown，of Berwick，Pa．，for improve－ entin Lime Kilns．
I claim，first，so forming the fire space in lime kilns，which are fixed at both ends so as to rise gradually from the centre of the kiln， to points above the eyes in each end thereof substantially as described，for the purpose of so distributing the draft and heat as to eecure the ever burning of the stone．
Second，I claim dividing the fire space by a partition wall in the centre into two chambers for the purpose of shiftiag and regulating the heat required in either ond of tho kila，sub． burifing of the stone
Third，I claim，in combination with the fire chambers and partition wall，the ash pits at each end of the kiln，connected by a narrow flue，so that when the eye at either end may be closed，for shifting the heat，sufficient draft will be kept up from the opposite end of the flue，to allow the fire to burn moderately with out boing entirely extinguished，as set forth． Tu Geo．Bacon \＆R．J．Ra ven，of New York，N．Y． We claim connecting and combining，in the horizontal square pianoforte in one piece of cast－iron，or other metal or metals，the bridge， the brackets，the upper bearing by the fianges， the reverse bearing on the buttons，the appli－ cation of the long ioridge of the horizontal square pianoforte，of the method of firmly se－ curing the whole to the rest plank by means of the acrews and the application of the dia－ gonal position of the flange，so as to make both strings of each note of equal lengtb，to metal bridges，on horizontal square pianofortes in the manner and for the purpose intended， as described．
To C．S．Bulkley，of Macon，Ga．，for improvemen in means of obviating difficulties arising from defec－ Iive ansulation of Telegraphs．
I claim reversing the connection of the main wire with the poles of the battery，so that the battery acts in opposition to the battery at the other end of the line，in the intervals between the contacts made by the key in writing（in place of merely breaking the circuit），by means of the apparatus ard arrangement of wires batteries，\＆cc，substantially as described，for the purpose of counteracting the effects of im－ perfect insulation，as set forth．
To Henry Carter \＆James Rees，of 1 ＇
for improved Nut and Waeher Maohine．
We claim the two punches moved at the same time，with different velocities，and in the same direction，in combination with a die box within which the nut is formed，substantially as set forth．
To J．P．Colrie，of New York，N．Y．，for improve ent in Machinery for Cutting Glass．
I claim，first，the combination and arrange－ ment of the several parts for giving the recip rocating and circular movement herein descri－ bed ；that is to say，the combination of the bed plate and revolving plate，with the car riago，consisting of three pieces．
Second，the method of guiding the move ments and adjusting the severas parts of the machine，for the purpose of directing the course of the object to be shaped or figured，in pass－
ing the edge of the cutting wheel，by mean of movable lettered or named atops and gauges， constructed and operating substantially as forth．
To D．W．C．McClosboy，of Now Yort，N．Y
I claim the use of the safety－valve and es
cape－pipe and stop－cock，in combination with the blow－pipe of a self－acting blow－pipe lamp substantially as herein set forth．
To W．T．Richards，of New Haven，Ct．，for im－ provement in machinery for forming joints of Elip Iicsl 8prings．
I claim th
I claim the combination of the hollow die with the lower die and half circular shears actuated in the manner substantially as de scribed and fos the purpose set forth．
To J．P．Sherwood，of Fort Edward，N．Y．，fur im rovement in CutNail Machines．
I claim，first，in combination with knives， or the equivalent thereof，for cutting blanks sidewise from nail plates，a travelling，griping， and heading tongs or jaws opening and closing in a direction perpendicular to the face of the nail plate，and constructed and actuated sub． stantially as herein set forth，to gripe the blank on its flat sides without the necessity of turning it upon edge，as is customary with nail machines heretofore constructed to draw it from beneath theknives，and to hold it while being headed．
Second，I claim the direct acting knife stock， with knives secured to its opposite sides，in such positions，with respect to the stationary knives or to each other，that the knife upon the opposite side，in combination with double graded cam，or other equivalent actua． ting mechanism，which shall cause the cutter bar to descend with two impulses，at each which one knife acts to cut a nail blank．
Third，I claim the relative arrangement the travelling griping jaws and heading tool， the latter being actuated within the former， and travelling with it．
Fourth，in combination with two sets of knives，acting altemately，to sever nail plates， I claim a reciprocating griping and heading carriage，which，travelling to and fro between the two sets of knives，gripes，heads，and de－ livers a nail at each single stroke，in alternate succeasion，at its opposite extremities，where by much time and labor are saved，and the machinery to cut a given number of nails is condensed into a less space．
To J．H．Swett，of Concord，N．H．，for inuprovement in Spike Machinery．
I claim the method of delivering the spike from the die，by means of the tilting rod and movable nippers，so as to allow the nippers to draw in the succeeding blank underneath the spike，and tip or tilt it out of the die，which prevents the possibility of a spike and blank being in the die at the same time，and the consequent breaking of the machine．

For the Scientific American．
Salivary Calculus，or Tartar of the Teeth． I am pleased to see by a communication from a correspondent，in your paper of August
23 ，that the subject of concretions upon the teeth is attracting some attention：in this manner knowledge for good is often dissemi－ nated．It is possible that the articles in your valuable journal may be the means of calling the attention of some among your sixteen thousand subscribers（who might otherwise neglect it）to the importance of a proper care and cleanliness to the organs of the teeth，a healthy condition of which is so essential to the well－being of the whole human economy
Your correspondent inquires，＂Is that sub－ stance usually called tartar，found on the teeth，really so ？＂in answer，I would say that it is generally called so，but it is more proper－ ly salivary calculus，a name given to it by den tal writers．There is considerable differenc between the substance found on and around the teeth，called tartar，and that substance called by the same name generated by the fermentation of wine in casks；the one is an earthy and animal deposit from the saliva and mucous secretions of the mouth，the other an acid concrete．
Salivary calculus，or tartar of the mouth，is found more or loss in its different otages on and around the teeth of every individual，whe－ ther they are accustomed to the use of wine or not ；even the animal creation are not exempt，ago．

Not long since I saw a clearly defined case it in the mouth of a dog．The eartby matte entering into the composition of tartar of the teeth，is mostly phosphate of lime；the ani－ mal matter is made up of infusoria and the remains of minute animalcula，the presence of which has been clearly detected by the mi－ croscope
Tartar，or salivary calculus，differs in its re－ lative proportions，as it is soft or hard；at first it is soft and light－colored，but by accu－ mulation and exposure it becomes dark and hard．The analysis of Berzeliue gives－phos． phate of lime， 79 ；salivary mucous and sali． væ， $13{ }^{\prime} 50$ ；animal matter， $750-100$ ．Dr Dwinell gives－phosphate of lime， 60 ；carbo nate of lime， 14 ；animal matter and mucous， 16；water and loss， $10-100$.
Hard and dry tartar has more earthy and less animal matter than soft；American and English authors attribute it principally to one source－the saliva；the French authors to se－ veral．The fact that it is found in greater quantities on the outside of the upper molars， or double teeth，and inside of the lower inci－ ors，or front teeth，which are opposite the mouth of the ducts，from whence the saliva ssues，goes to prove its paternity．Tartar it－ self does not directly act upon the teeth，still its effects upon the mouth，in general，is ex－ tremely deleterious，vitiating as it always does its secretions，causing inflammation，ab－ cess，and fungus growth of the gums，and de－ troying the alveoli，or sockets that contain the teeth－causes them，when perfectly sound， to loosen and fall out；it also，by eating away the gums，gives the teeth that long，dark，and unsightis eqpearance，and by admitting the air and acrid food to their bony structures， hastens decay，causing toothache and its ac－ companying evils：it not unfrequently is one reat cause of dyspepsia and derangement of the whole digestive apparatus；it also，if al－ lowed to accumulate for any length of time， prevents，by irritation，a proper cleanliness of teeth－the brush cannot be used without pain， as the guins bleed at the slightest touch，hence many suffer their teeth to go to ruin for want f proper cleanliness．
There are many who，from ignorance of the offects of asalivary calculus，appear to have a great affection for it，and are extremely loth to part with it，fearing its removal may injure theenamel．When persons，on examining their mouths，find an accumulation of this sub－ atance on and around their teeth，I would ad－ ise them to havo it removed as soon as pos－ ible－not by using acids for the purpose，for， as I remarked in a former cominunication，any acid，no matter whether vegetable or mineral， that will dissolve tartar，will assuredly dis－ solve the teeth，一but by instruments construct－ ed for that purpose in the hands of the den－ tist，after which，by using the tooth－brush wice a－day－in the morning when rising for tartar accumulates freely during the night）， and in the evening when retiring－with some simple alkaline dentrifice，will in almost every instance prevent an accumulation of this in－ jurioussubstance．G．F．J．Collurn，Dentist．
Newark，N．J．， 1851
Pateut Cases．．．Cultivators．
There were two cases decided befure Judge Nelson，at Cooperstown，on the 12th ult．， which，to our farmers，are of no small impor－ tance．They were motions for preliminary in－ junctions，lat by S．R．Tracy，against R．S． Torrey and $H$ ．Torrey，for infringing the pa－ tent of N．Ide，of Shelby，Orleans Co．，N．Y．， in cultivators，the plaintiff being the aesignee or three counties．The defendants were sell－ ing cultivators within the county lines owned by Tracy，viz．，Yates，Seneca，and Ontario． Tue defendants were aelling cultivators own－ od by the plaintiff．
Ind，motion for injunction by E．Cbamber－ lain and others，againsc J．F．P．Root，and others，for infringing the same patent，the plaintiffs being owners of the patent for the town of Swodon，Brockport in Monroe Co． Iojunctione were granted．We shall notice these cases more at length next week，for the result verifes the advice given by us to certai arties in relation to this affair some time ago．

