Scientific American.



[Reported Officially for the Scientific American.] LIST OF PATENT CLAIMS

Issued from he United States Patent Office.

FOR THE WEEK ENDING FEBRUARY 13, 1855.

CLOVER HULLERS-James Allen, of Trease's Store, Ohio: CLOVER HULLERS—James Allen, or Irease's Store, Unio:
I do not claim adjustable tall-boards, in separators, nor inclinedguide boards for receiving and conducting the seeds to
heir receptacle; nor do I claim a tailing screen, except unPer an arrangement like that set forth.
But I claim the arrangement of the two tail-boards, d d,
in combination with the tailing screen. L, so arranged under the inclined boards, K, that it shall be out of the wayof

the blast and yet deliver thoseed at M. into the main recep-tacle, and the tailings ont at its side through the aperture, b, it being understood that the outer and inner tail-boards must be adjusted, respectively, with reference to the screens, I and J, all as set forth.

MACHINES FOR CHOPPING MEAT AND OTHER SUBSTANCES-Win, H. Allen, of Lowell. Mass. 'I do not claim the MACHINES FOR CHOPFING MEAT AND OTHER COOSTAM.

CES—Wm. H. Allen, of Lowell, Mass.: I do not claim the
use of chopping knives on vertical sliding heads playing
upon a block or receptacle. Nor do I claim the cam acting
upon a circulaa corrugated sisk as a means of combining
the lifting motion with a gradual rotary one, this having
been done before in machines for drilling rocks.

But I claim the forming a machine for chopping meatand
other similar substances, by attaching the chopping knives,
H H H H, to a central rotary spindle, F, when this is operated by the combination of the cam, M, and corrugated disk,
as described.

HOP FRAMES—I, D. Asysworth, or Frankfort, N. Y.: I do not claim the training of hop or other vines on wires or cords, as this has been done before.

But I claim, in combination with the permanently arranged supporting cord or wire, C, the training cords or wires, D, leading from the ground to said supporting wire and connected thereto by a spring hook, or its equivalent, so as to be readily connected to or detached from the supporting wire, for the purpose and in the manner set forth.

I also claim in considuation with the training cord, D, the inverted cup, d, for turning down the top of the wire, and preventing it from entering the supporting wire, substantially as set forth.

LIFE BOAT—Hiram Berdan, of New York City: I do not claim of themsolves either the hinged or pivoted ribs, orthehinged gunwale bars.
But I claim the method described of keeping the gunwale bars, E E, in place when the boat is extended for service by

wate, E. E., in place when the boat is extended for service by means of the notches, e.e., which are made in the ribs, F. F., to receive the said gunwale bars.

COTTON GINS—Henry Clark, of Newport, Fla.: I do not claim simply rollers for gipning cotton: nor do I claim the

claim simply rollers for ginning cotton; nor do I claim the spiral grooved roller tor that purpose, ast it is contemplated to use the large roller without any groove; nor do I claim the comb simply.

But I claim the combination of a large ginning roller, either smooth or grooved, with a very small one, the latter driven and supported, as described, by the friction rollers and the large ginning roller, together with one or morestripping rollers and comb, for the purpose of removing cotton seed from the fiber, substantially as arranged and described.

Churns—E. B. Clement, of Barnet, Vt.:I claim the folding dasher, operating as set forth. THRASHERS AND CLEANERS OF GRAIN-George Da of Philadelphia, Pa.: I do not claim a skeleton cvl

of Philadelphia, Pa.: I do not claim a skeleton cylinder, nor inclined planes, nor a blower case containing a fan atached to thrashers and cleaners, irrespective of the peculiar construction of each, as described; nor do I claim placing a fan upon the shath of a beating cylinder, as this combination has been known and used before.

But I claim, first, a skeleton cylinder in combination with a cast iron bed plate, constructed as, and for the purposes specified.

second, I claim the four inclined planes, G, placed in re-tion to each other, as described, each at an angle of about lation to each other, as described, each at an angle of about 45 degs., as described, and so as to leave an oblong opening between them for the pa sage of the grain and chaff to the receiving box, substantially as and for the purposes de-

scribed. Third, I claim the blower case, B, the receiving box, C, with its inclined plane, f, at its end, arranged and combined on the outside of the box, or body of the machine, substantially as and for the purpose specified.

STAYS FOR ARTICLES OF DRESS—John Dick, of New York City: I claim the described improvement in stays, as applied to articles of wearing apparel, consisting of two or mere supporting pieces with a spring or springs applied to extend them, substantially as set forth.

WHARF BOATS—H. T. Dexter, of Zanesville, Ohio: I claim so constructing a wharf boat, so that a turn-able may be conveniently located therein, upon which a dray may be driven and turned around, and so that freight may be delivered or received from any part of the boat without much handling, substantially as described.

PLOWS—George Esterly, of Heart Prairie, Wis.: I am wave that a standard has been cast with wings to support awase that a standard has been cast with wings to support the shares and mold board.

It is a support the standard, G, with raised portions, A, land side, H, and form lay, K, all in one piece, to beem-ployed either with or without projection B, as set forth.

SMOKE CONSUMING STOVE—James Easterly, of Albany, N. Y.: I do not claim the use of a fuel magazine, nor of a downward trait for the fire, neither being novel arrange-

ments in stoves.

But I claim the constructing a stove, as described, with openings for the admission of air to the burning fuel, at some point or points above the grate, including between said points and the grate sufficient fuel for ignition at any one time.

CRACKER MACHINES—Phineas Emmons, of New York City: I claim the revolving intermittent bed plates, operated by means of an eccentric on a driving shaft, and the connecting rod, lever, pawls, and notched wheel, in combination; and this I claim, whether the said intermittentbed plate be or be not combined with the endless barrelsurrounding it, for the purpose of conveying away the crackers, substantially as set forth, it being understood that I do not claim, in general, themaking of the machine, so as to concey the dough beneath the cutters, with an intermittentimotion, that having been before done in other machines by passing the dough upon an endless band carried with an intermittent motion over a fixed table upon which the cutters work.

SPIRIT LEVELS—Hampton W. Evans, of Philadelphia, Pa. I do not claim the disk blate or conic center upon which it revolves, as new; but in connection therewith I claim the crescen shaped sliding or adjustable stops, and spring catch, in combination with the grooved disk and set screws or their mechanical equivalents, the whole being arranged and constructed in the manner and for the purpose described.

STEAM BOILER CHINNEYS—Asahel Fairchild, of Ashland, Ohio: I claim connecting the chimney of a steam boiler furnace to the flue connecting treeching thereof, by means of a cylindrical joint arranged in such a manner that the chimney can be lowered into a horizontal position without producing openings in said joint, and also without closing the connection between the chimney and the furnace flues, substantially as set forth.

Machinery for Felting Hat Bodies—Wm, Fuzzard, Newark, N. J.: I do not claim the corrugated rollers, C

of Newark, N.J.: I do not claim the corrugated rollers, C. Separately, for they have been previously used, although differently arranged from those described.

But I claim the employment or use of the corrugated rollers, C.C. placed in a swinging frame, B, in combination with the endless apron, G, the above parts constructed, arranged, and operating in the manner and as shown and described.

ROTARY PLOWS—J. W. Haggard & Geo. Bull, of Bloomington, Ill.: We claim the arrangement and combined operation of the plows, II I, cutters, J J J J, and semicircula: way, K, substantially as and for the purposes described,

Weather Strips for Doors—Alonzo Hitchcock, of Chicago, Ill.: I do not claim the V-shaped groove, nor the hinged weather strip, nor the listing, as described, as they have been used before.

But I claim the peculiar form of the elevated surface or plane, E, in combination with the V-shaped groove, weather strip, and listing, substantially as set forth.

SEWING MACHINES—G. H. & B. H. Horn, of Brooklyn, N. Y.: We are aware that sewing has been effected by two threads, the one being carried by a shuttle, the other by the needle; therefore we do not claim the Same, and we are aware that the stitch has been pulled tight by the motion of

needle; therefore we so not claim the Same, and we are aware that the stitch has been pulled tight by the motion of the needle and needle carrier.

And we do not claim the shuttle, but we are not aware that forceps have ever been used to pass through the loop of thread, and open the same, thereby insuring the opening of the loop and preventing tangling; nor do we know that the shuttle has been drawn through a loop by means of an eye on the end, thereby avoiding all liability of the shuttle not passing into the loop, and where the shuttle is forcedthrough the loop as the needle draws up, its thread has to pass between the rear end of the shuttle, and the part has forced the shuttle forward, which is liable to break the thread. We claim, first, a hollow needle with an eye in the side to pass the thread, as specified.

Second, we claim opening the loop by means of forceps, thereby insuring that the loop is properly opened and avoiding tangling of the thread, as specified.

Third, we claim drawing the shuttle through the loop by means of the eye, or its equivalent on the end of said shuttle, as specified, thereby avoiding the risk of breaking the loop when the shuttle is forced through the same, as specified.

SHIPS' STANDING RIGGING-Frederic Howes, of Yarmouth Port, Mass.: I claim forming the shroud and back stays or Port, Mass.: I claim forming the shroud and back stays or additional to the shroud and back stays or ducting the rope of which they are formed, alternately, through proper guides aloft and guides at the channels or chain plates, as set forth.

METHOD OF TEACHING PENMANSHIP—Wm. S. MacLaurin, of New York City: I claim the employmena of figures such as described, marked on or formed in the surfaceof, a tablet, slate or ether surface, for the purpose of aiding the hand in guiding the point of a pen, pencil, er syllus, in retracing therewith the lines of the said figures an indefinite number of times, as described, to train the hands of pupils in teaching them the art of writing.

LEATHER SPLITTING MACHINES—M. H. Merriam, of Chelea. Mass., and J. B. Crosby, of Stoneham, Mass.: We claim, Leather Splitting Machines—M. H. Merriam of Chelsea, Mass., and J. B. Crosby, of Stoneham, Mass.: We claim, first, the disk cutter having a simultaneous rotary and reciprocating movement as applied to machines for splitting leather and other analogous purposes. Second, we do not claim the broad device of constructing a draft roller, so that its shall have a greater circumferential velocity in one part than in another. But we claim constructing the draft roller, o, so that its increased circumferential velocity may be made to act more or lessefficient, as desired, substantially in the manner de scribed.

Scribed.

Third, the combination of the apron, L. bed, K, and draft rollers, i and o, when the roller, o is constructed substantially in the manner and for the purpose set forth.

GRASS HARVESTERS—Robert J. Morrison, of Richmond Va., Assignorto himself and Edwin A. Morrison, of Law reneeville, Va.: I claim constructing the cutter teeth or blade and teeth, and the gnard fingers, of three several plates of mesal, all of similar form, and lying closely appose ach other, the middle row of teeth being sharpened and stationary, while the upper and lower ones are vibrated for the purpose of causing whatever slipping there may be in gathering in the stalks to be cut, to come upon the fingers mainly, and thus protect the sharp edges of the cutters, as set forth.

LAMP EXTINGUISHERS—Josiah H. Noyes, of Abington, Mass.: I claim attaching the caps or extinguishers to the wick tubes of a lamp by means of rods secured to the said wick tubes, and in such a mannerthat the caps may be freely moved up and down the said rods, and applied to or removed from the top of the wick tubes, as set forth.

MACHINES FOR SLAUGHTERING HOSS—Jefferson Parker, of Louisville, Ky.: I claim the arrangement of the elevating fingers, d d, and the chains, e e, with the operating levers, and with the scalding vessel, A, and the scraping bench, B, substantially in the manner and for the purpose set forth.

GARDEN RAKES—S. N. & W. F. Stillman, of Leonard-ville, N. Y.: We claim the new manufacture of garden rake described, viz.: a rake having curved metal teeth inserted and fastened into the head as set forth,

BRIDLE BITS-Wm. D. Titus, & Robert W. Fenwick, a brooklyn, N. Y.: We claim the described improvement bits for stopping runaway horses, consisting in the appli-tion of passos arranged and controlled by a rein, that, at pleasure of the rider or driver, they may be made to cl the horse's nostrils, and thereby check respiration, as

Phows—Ira Reynolds, of Republic, Ohio: I am aware that plow points have been constructed with oblique shoulders, a corner of which was made to bear somewhat like the shoulders in my plow point.

But I claim, irat, the laterally extending shoulder, r'r, arawn back against and somewhat between the two shoulders, rr, in order to hold the point securely in place, and prevent the breaking of the shank, t, near the shoulder, in the operation of plowing, substantially as set forth. Second, I claim the arrangement of the within described reversible steel share, as secured to the face of the mold board by means of a screw bolt inserted from the lower side of the female screw being formed in the steel share, as set forth.

forth.
Third, I claim the reversible self-fastening colter. constructed, secured, and arranged in manner and for the purposes set forth.

STEAM VALVES—John Tremper, of Philad elphia, Pa.: First, I claim the valve composed of aring without ports or Passages in its sides, applied substantially as described, within a casing containing a fixed head or cup, b, and a passage or passages, 4, Rading from one side to the other of the said fixed head or cup. Second, The guard ring, C, applied substantially as described, either with or without the lip, 1, for the purpose of protecting the inlet side or end of the valve against the percussive effect of the rush of steam, or other fluid, at the commencement of the stroke of the engine.

HEAD SUPPORTERS FOR RAILROAD CARS—J. N. Williams, of Dubuque, Iowa: I claim the arrangement of head supporters in railroad cars in such a manner that each pair of supporters, by reversing their positions, can be adapted equally well to either one of the two seats nearest the said

equally well to either one of the two seats nearest the said supporters, when the said seat has the rear side of its back turned towards the supporters, substantially as set forth. I also claim the combination of the head supporters, c c, the plate, b, the bart, a, and the cord, f, or their equivalents, in such a manner that the supporters can be placed in the proper position for supporting the heads of persons riding on either one of the two seats nearest to said supporters, or turned up and secured to the side of a car, substantially as set forth.

The Way to Build up a State.

Governor Grimes, of Iowa, in his inaugural address, thus describes the wants of the thriving State over which he presides:

"She wants educated farmers and mechanics, engineers, architects, metallurgists, and geologists. She needs men engaged in the created, as he maintains, three long periods practical duties of life, who have conquered before the sun, moon, and stars, the question their professions, and who are able to impart their knowledge to others. She wants farmers who shall be familiar with the principles of chemistry as applied to agriculture; ar- line; if it remained stationary, I can see no chitects and mechanics who will adorn her with edifices worthy of so fair a land: and

a school of applied sciences. I have no hesitation, therefore, in recommending that a university fund be appropriated to establish a practical scientific or polytechnic school."

New Petrified Bodies.

The Dayton (Ohio) Empire, gives an account of some bodies which were buried some years ago, near that city, having become petrifications. The bodies were the wife and grandchild of G. P. Loy, and were buried on a little knoll on his farm in the Miami Valley. He opened their graves to remove them to his family lot in a new cemetery, when, on coming to the coffin of his first wife, who had been buried twenty-four years before, it was found to be perfect in form, but could not be raised on account of its great weight. It was at last lifted by six men, when its lid was removed, and the body appeared to be perfect. Upon a close examination it was found that the remains would not give way under the pressure of a piece of board which one of the gentlemen placed upon the corpse, and this strange circumstance led to still further investigation.

The shroud, and indeed all the covering which was upon the body at the time of interment, 24 years ago, had disappeared—not a vestige of them remained. The body was perfect, except the right leg, from the knee to the ankle joint, where the flesh seemed to have wasted away, and lay at the bottom of the coffin, in a substance resembling sand. With this exception of decay, the body and limbs exhibited the same perfectness of exterior they did when in life.

The body had become petrified! It was by some quality of the earth turned into stone of a drab, or, more properly speaking, flesh color.

The grave of the grandchild of Mr. Loy was next entered, and the coffin exhumed. It was also found to be heavy, and when opened the corpse presented much the same appearance as that of Mrs. Loy. It was not as perfect, however, although petrified. The most remarkable thing connected with the remains of the child was, that the hair upon the petrified skull was to all appearance the same as life! The other bodies which were exhumed—one or two in number—were only partially petrified.

There is a petrifaction—that of an Indian in the British Museum, taken from the Island of Guadaloupe, and said to be the oldest of a human being in the world. In the work of Gliddon and Newton, on the diversity of the human race, this Guadaloupe petrification is spoken of as a most wonderful curiosity, and affording evidence of the great length of time-more than forty thousand years-that the human race has lived upon our continent,-the great length of time required to form the petrification being alleged as a reason for this conclusion, but the facts now brought to light in Ohio shows upon what very slender data they have formed their opinions. It appears to us that we have read of bodies having been found petrified, in other places, a few years after interment, but we cannot lay our hands upon the source of information at present.

How the World was Made.

MESSRS. EDITORS-I would like the privilege of a few remarks on an article headed "Age of the World," on page 165, in which you review an able effort of Rev. John O. Means to reconcile the Genesis' account of creation with the science of geology, &c. The Reverend gentlemen reasons well, no doubt, but I apprehend, from wrong premises. There seems to be greater difficulties in the way than the length of days, or "periods," and the supply of light. If the earth were arises. "did it revolve or remain stationary?" support it. If reason and philosophy are to be engineers and geologists who will develope our guides in speculating on these questions, can only be supplied by the establishment of metaphysical, and if they do not coincide having discovered a small planet in 1854.

with this test, they should be received as of very doubtful reliability. It seems to me, therefore, that it is not in keeping with reason and philosophy, to suppose the creation and consequent action of the minor (our earth) before the major and central body (the sun.) Surely the earth is not the principal body for which these great and magnificent systems, which Astronomy reveals to us, were created, and of which our solar system forms but a small part; and then to think our earth forms but an insignificant portion even of that.

In view of these considerations it seems to me contrary to reason, and the laws and philosophy of motion to suppose the earth created before the sun, moon, and stars.

DAVID PALMER. Batavia, N. Y., Feb. 12, 1855.

[If there were no other planet or body than the earth in the universe, unless it received an impulse, it would neither move of, nor in a straight line, nor require the turtle's back to holditup. Mr. Meansis not wrong in his premises here. But as he is a believer in the nebularhypothesis, his conclusions are somewhat contradictory, because it assumes that the matter of which the earth is composed rotated around that of the sun, as a center, with the matter of the moon, planets, and stars, outside. This dogma is positively megative to the sun or the stars being made after the earth. We must also say, as our correspondent has directed our attention to this question, that Mr. Means has endeavored to give a very wrong and unfair exposition of the plain meaning of the word water. In the Scriptures, describing the second act of creation, it is stated, "God said let there be a firmament in the midst of the waters. and let it divide the waters from the waters," -the waters below from the waters above-'and it was so." In reference to this language Mr. Means says, "if the waters spoken of were matter in a gaseous state, the separation would be the process by which nebulæ were detached from the mass and formed into worlds. No one can affirm that such was not the character of the waters," "the word water is not evidence that it was not gaseous matter."

The word water used here, he assumes. along with Prof. Guyot, means gas-nebula. Now let us take his explanation of the word water, and apply it to the third day's acts in Genesis, and see what a wretched exposition he makes of it.

It would read, "Let the gas, or nebula, under the heaven (thisgas, be it remembered, is the water below, that was separated from the water above) be gathered into one place and let the dry land appear, and it was so; and God called the dry land earth, and the gathering together of the gas, or nebula, called He seas." If Mr. Means and Guyot are correct in their way of explaining these descriptions in Genesis, to prove the nebular hypothesis, their logic leads to the absurd scientific conclusion that the moon is a globe

Our correspondent's reasoning with regard to the sun being the major body of the solar system, and could not be created after the earth; and that the latter was not the principal body for which the sun was made-according to the Genesis account, is very natural, but we do not think it profound. Why should not the sun be created for the earth? If the sun contains no living intelligence (and who believes it does) the earth contains far higher and more elevated objects of creation. Man was created after our globe was formed, yet is man not a more noble work of creation than a dead world?

Prizes for Astronomical Discoveries.

At a recent sitting of the Paris Academy of Sciences, the prize for astronomy was di-If it revolved, according to the philosophy of vided amongst MM. Luther, belonging to the motion, it must have flown off in a straight observatory of Blik, near Dusseldorf; Marth, attached to Bishop's observatory at London: other alternative but the "turtle's back" to | Hind, belonging to the same observatory; Ferguson, attached to the observatory at Washington; Hermann Goldschmidt, historiher resources, and thus augment the wealth we should apply them thoroughly to every cal painter, and Chacornad, attached to the and happiness of her citizens. This want theory or hypothesis, whether physical or observatory at Paris—each of these persons