Walking Stones.-We have noticed in this column the "walking leaves" of Australia, and now give our readers the benefit of a statement that has fallen under our notice, of some "traveling" pebbles found in Nevada. They are described as almost perfectly round, the size of a walnut, and extremely hard. When distributed about upon a flat surface, when even separated two or three feet, they immediately gravitate toward a common center. At a distance of five or more feet, the attraction ceases. These stones are found in a very rocky region, which abounds in little basins hollowed out of the rock, from a few feet to a rod in diameter, and in the bottom of these the stones are congregated. We would suggest that perhaps the common phenomenon of the "eye stones"-calcareous concretions - which, when placed in a nearly flat porcelain dish with an acid, as vinegar, will tend gradually toward a common center. receives
an illustration, probably, in the above. The effervescence ocan illustration, probably, in the above. The effervescence oc-
casioned by the combination of the lime and the acid is sufficasioned by the combination of the lime and the acid is suffi-
cient to overcome the weight of the pebbles and the inclined sides of the plate or the natural basin accomplishes the rest.

Effect of Electricity on Seeds.-M. Blondeau asserts that, after many experiments, he has found theaction of an induction current on seeds, before planting, produces very beneficial results, noticeable in their subsequent growth. In experimenting with beans, peas, and cereal grains; the seeds were soaked in water for some time, and were then submitted to the action of a current for several minutes. After this they were planted in pots filled with good garden earth, and at the same time other unelectrified seeds were planted and kept under the same conditions for the purpose of comparison. The tormer always came up first, grew more rapidly, and gave much more vigorous and fruittul plants than the latter. "But," says M. Blondeau, " one very singular fact is that many of the electrified seeds obstinately persisted in growing with the true root pointing up in the air, while the plumule was directed downward ;" which gives air, while the plumule was directed downward ;" which gives
a little shade of incredulity to the whole statement, but the a little shade of incredulity to the whole statement, but the
experiment is an easy one for any interested person to try for experiment is an easy
his own satisfaction.
A Novel Hitching Post:-The party comprising the Russian American Telegraph Expedition, on their return from the northern region, have brought home many interesting relics. An ivory tusk twelve feet long and measuring seventeen inch es in circumference, was purchased for twelve leaden bullets from Indians living in the new territory of Alaska. Near the junction of the Anadyr and Myan rivers the party found a tusk of enormous size sticking some six or eight feet out of the ground and endeavored without success to dig it up. The frost in the ground held it so firmly that they were not able to ascertain whether the other bones of the mastodon were beneath or not. The Indians said that they had used
it as a hitching post for many years, and that was all they it as a hitching post for
knew or cared about it.

Chinese Tea Grown at Home--In our number for Sept. 28,1867 , we gave a description of Dr. Alfred L. Acee's plantation of tea, at Rose Bower, near Bellevue, Talbot County, Ga. We have now the pleasure of acknowledging the recëipt, by express, from Dr. Acee, of a few living tea plants grown by him, together with some of the nuts. We have placed the plants in our green house, and intend to raise some tea from the seed. Dr. A. is entitled to much credit for his perseverance in demonstrating the feasibility of raising tea on this continent. The plant formsan ornamental evergreen shrub, and may be readily cultivated in many parts of the exposure even to freezing sleet, and may be cultivated anywhere in the open fields without manure.

Crystallized EgG.-Numerous and of very varying values are the recipes for preserving eggs, which have been given to the world, but a company of this city believe that they have at last attained perfection in this line. though attaining their end in a novel way. Their process is as follows: The fresh
eggs are emptied from the shell into a long trough, and into eggg are emptied from the shell into a long trough, and into
this trough descends a shaft armed with a series of metallic disks, which, rapidly revolving, beat the eggs into homogeneousness, and are themselves covered with a thin covering of egg. This thin pellicle, when dried, is scraped from the disks in the form of thin granules, apparently crystallized, and retains indefinitely all the peculiar properties and flavor of the fresh egg.

Ferthizing Plants.-The old idea of botanists that hermaphrodite flowers shed their own pollen upon their own stigmas is now generally discarded, as observation has shown the almost infinite variety of contrivances which Dame Nature furnishes to prevent this. It has been recently noted that the insect world plays a very importat part in the fertilization of certain plants in conveying the pollen from one flower to another. Another remarkable fact in this connection is that almost all flowers which are thus fertilized are gaily colored so as to be attractiye to insects, and Mr. Darwin observes that he knows of no flower fertilized exclusively by pollen blown on the wind, that has not a dull unattractive appearance.

Coffeeretea. - We have made frequent mention of the experiment which, if reports are true, has been highly successful, of raising the true Chinese tea-shrub in our Southern States. An exchange calls attention to a new branch of industry in this line, which is capable of still more extended cultivation. It is customary in Sumatra to use the roasted
leaves of the coffee plantfor the production of a drink having
all the properties of the best of tea, and containing nearly 1.25 per cent. of its peculiar principle. The preparation of the leaves is much simpler than that required for the true Chinese tes, and the cultivation of the plant can be carried on in more northerly countries, where the coffee berry itself would never fully ripen.
A Novel Mode of Pasturing Sheep.-A grazier in the Pas de Calais, named Pentefort, has introduced the following singular method of economizing his green crops: Over the whole field is placed a rack or fence, so made that the sheep cannot jump cever it, but must feed between the bars; and when all the herbage within their reach is consumed, the rack is moved forward, so as to give them a fresh supply of forage, Regularity in cropping and great economy result from the employment of this singular system.

Carbonic Acid baths.-At Piermont, in Germany, there is a natural spring of carbonic acid cas, the sides of which have been walled up, and steps laid for entering it. The well is shallow, and the gas fills it to a depth of about four feet, so that the gas rises about to the middle of a person standing in the well. The effect of the gas in contact with the skin is said to be a peculiar pricking sensation, but not so unpleasant but that such baths have come to be very much in vogue

## MANUFACTURING, MINING, AND RAILROAD ITEMS.

by the Mas ore from the Industry silver mine, in Maine, have been assaye by the Massachusetts States assayer and found to a verage 8 ounces, 60 grains
of silver per ton. An interesting fact regarding this mine is the discovery of silver in magnesia, and white or gray pyrites.
From a list of railroads in California, prepared by the Secretary of the 1nterior, it appears that up to July 1st, 1867 , there were a fraction less than 300 miles of railroad track completed and in running order in that State, with a additional length of 1,142 miles, now being constructed.
Machine belting is manufactured of paper by Messrs. Crane, at Dalton,
Mass,, and is in use in several New England mills. One of these paper belts measures seventy-five feet long and eight inches wide. Patents have been secured in foreign countries for this invention, through this office, and the
role promes to
Notice has been server on the workmen in the iron trade in Middlesbro,
and the Tees District, Darlington, Witton Park, and other parts of the northand the Tees District, Darlington, Witton Park, and other parts of the north east of England, that the masters intend to reduce their wages on the 7th of
December. The notice has been issued in consequence of a meeting of the Irenmaster's Association, at Newcastle-on-Tyne, and it is thought that the
reduction will average about ten per cent. The men at the Albert Works reduction will average about ten per cent.' The men at the Albert Works,
Darlington, have accepted a reduction. Darlington, have accepted a reduction.
The survey of another trans-continental railway route, which shal: follow
mainly the thirty-ffth parallel of latitude, is nearly mainly the thirty-ffth parallel of latitude, is nearly completed. Its proiec-
tors claim this as the most feasible one across tors claim this as the most feasible one across the continent, and even if the popular thoroughfare, and the easiest and cheapest built.
From lack of economy, in production of ores, it is estimated that the ar. will reach the round sum of $\$ 25,000,000$.
Many of the very best locomotjve builders in France and Belgium still adhere to the plan of packing their cylinder heads with wire gauze and red lead paint, an antiquated practice long since discarded in both this country lead paint, an
and England.
In Brazil, Clay county. Indiana, there is found a species of coal which in appearance and gravity resembles charcoal, having even the woody fibre or
the latter. So valuable is it for smelting purposes that one furnace in St. the latter. So valuable is it for smelting purposes that one furnace in St.
Louis is using five car loads a day, and its existence needs only to be known Louis is using five car loads a day, and its existence needs only to be known
to increase the demand from other establishments indefnitely. In the same neighborhood is also found an abundance of native fron ore of a superior quality, and a number of iron men trom Ohio and Pennsylvania have lately
been investing heavily in real estate, and the erection of mills and furnaces in this section.
During last year there were 181,099 tuns of new, and 235,834 tuns of re-rolled rails made in the United States. During thesame period we imported about 100,000 tuns, making the total consumption of ralls in 1866, 517,933 tuns ot
2000 lbs. 2000 lbs .
It has been calculated by Prot. Breithaupt that during the sixhundred and forty years, dating down to 1885 , which the mines of Freiburghave been
worked, worked,not less than eighty-two thousand hundred-weight of silver have
beenraised, and that the amount yielded in 1850 alone was not less than eight hundred thousand thalers.
There remains to be built to complete all railroad communication across the continent, 1,070 miles of road. As about 700 miles have been built wtthin
ittle more than two years, it is not unreasonable to expect that the remain. ittle more than two years, it is not unreasonable to expect that the remainder will be completed in the tine anticipated-say in 1870 .
Our Canadian neighbors are now very much exercised over the selection of a route for the new lntercolonial railroad, which is to bind the various members of the new Dominion more closely togethhr. The road is to run
from Quebecto Halifax, through the lower part of what was Lower Canada. from Quebec to Halifax, through the lower part of what was Lower Canada.
but now called tbe Province of Quebec; New Brunswick and Nova Scotia Threeroutes have been proposed, and consequently the war of localinterests runs high. Of these, the frontier lineruns through the most thickly settli-d regions, but in case of war with us, the Canadians fear the road would be to easily destroyed. The same reason holds good against the second or centr ll route, the northern route being preferred by the Government offcials. To.
ward the construction of the road, the Enclish Parliament is to guarantee a ward the construction of the road, the Enclish Parliament is toguara.
loan of $\$ 15,000,000$, which will probably cover the cost of construction.

##  Ond this heading we shall ublish vo kly not s of soone of the morepromic nent home and foreign patents.

Mandfature of Steri.-James R. Bradley and Moses W. Brown, Chica
go, Ill.-Tbts invention relates to an improved process for manutacturing go, 11. - Tbrs invention relates to an improved process for manulacturing
steel of various kinds and grades, and consists in improvements in the com position of mixtures fortreating malleabie iron.
Hotsting Jack.-S. B. Rittenhouse, Plymouth, Ind.-The object of this invention is to provide a small and portable machine through wbich a very great power may be obtained for the purpose of hoisting heavy weights. or
propelling heavy bodies, or exerting a great force in any direction, as pro propelling heavy bodies, or exerting a great force in any
pelling a ditching machine, or a plow for laying arain tile.
Inhaling Tobe.-Samuel W. Sine, Easton, Pa.-This invention relates to ducing insensibility in surgical, dental, and other operations, or for other purposes.
Boor-TREE.-F.S. Wilt, Allentown, Pa.-This invention relates to a method
ot constructing boot-trees, and the invention consists in an arrangemen whereby the leg and foot of the boot are treed or expanded simultaneously by operating a single lever nut on the upper end ot the tree.
Improved a dtomatio Rain Conduotor.-James B. Hudson, Fayetteville, N. C.-This invention relates to on apparatus for conducting water into cis.
ed with a float, whereby the said disk is made to reverse its angle of inclina
tion and deliver the water into a waste pipe, when the water in the cistern tion and deliver the wat
reaches a certain point.
Ass Hovse.- Moses Hall, Osborn, Ohio.-This invention consists of a hopper and screen upon a fire-proot ash box, and the whoie placed upon a leac
tub ; said leach tub being provided with a screen or perforated plate through which the lye passes off.
CASE or box for Preserving Corpses.-P. Wendhiser, Rockville, Conn.
This invention relates to a case or box forthe preservation of corpse -Thich boxvor caseis constructed in a noveland peculiar manner, whereby it is rendered extremely efficient and desirable, as well as serviceable, tor the purpose intended.
Generating and Superieating Stean.-George Miller, Melbourne, Vic toria.-This invention relates to the manner in which steam is generated and superheated, and to the means by which the pressure of the steam is regulated, and also to the manner in which the temperature is concentrated, an
consists in providing, in connection with a furnace or fre box, generating onsists in providing, in connection with a furnacs or fire box, generating
pipes or tabes wherein the water enters and is converted intosteam, and pipes or tabes wh.
also superheated.
Plows.-S. J. Leach, Tuscaloosa, Ala.-This invention has for its object to furnish an improved plow provided with a detachable facing formed of wood or other material, to which adhesive soils will not adhere and clog the plow, which shall be cheap, mos
narily used in such soils.
Land Conveyanoe.-G. F. Krollpfeiffer, New York city.-This invention relates to an attachadent for sleds, sleighs, and other classes of land convey ance, whereby sleds or sleighs can be propelled over the ground or other sur
face, by means of the direct action upon the ground of a lever or levera hung to the body of the sled or other vehicle as to be suitably operated by a person or
chanical.
Boat Lowerivg Apparatug.-A. F. Crosman, Lieut. Commander, U. S. N.
This invention relates to a new and improved means for detaching boats from This invention relates to a new and improved means for detaching boats from
davits, and it consists in a novel manner of applying the davits to the vessel, Whereby the former may be made to project out from the vessel, more or les as required, in order to prevent the boat, while being lo
against the side of the ship by the action of the waves.
Lantern fok Street Railroad Cars.-L. V. Badger, Chicago, ill.-The invention is to obtaln a signal lantern for other, and have the advantage of being capable of adjustment in a more conpicuous place than those now used.
Stovepipe Damper.-D. Manuel, Boston, ,Mass.-This invention relates to an improvement in the construction of dampers for stovepipes, and consists In two cast iron disks, which have flat central surfaces and are interlocked so that they lie close together when united by the pivot suspension rod of th corrugationson the opposite disk 3 , and form concave radiators above and below, so related to each other that the smoke and heated gases can ente therein from below and receive a reverse movement which deflects them against the stovepipe, thus imparting more heat to the air in a room betiore finally escaping.
Dressing Mill Stones.-Notley W. Wortham, Union Point, Ga.-This Indian corn and other grain, whereby there is a large gain in the grinding capacity of the stones over the ordinary methods of dressing the stones and perior quality of meal is produced.
Railroad Wred Cutter.-J. s. Boicourt, Boonsboro', Iowa.-This inroad track and consists in attaching cutters either circular or straight to the truck of a car, which are worked by gear deriving its motion from the wheels of the car.
Hedge Trimmer and Corn Stale Cutter.-John §W. Hall, Conners-
ville, Ind.-This invention relates to an improvement in the construction of a machine fortrimming hedges and cutting down the stalks of corn in the tield, and consists in a frame mounted on wheels and drawn by a team, an wheels for trimming the top connected with gearing moved byone of the being placed on the frame when required for cutting corn stalks as the ma being placed on
chine travels.
Lamp Chimney Cleaner.-George Lea, Shirleysburg. Pa.-This invention relates to the construction of an improvement for c leaning lamp chimneys, and consists in a curved metal rod having a serrated conical disk or cap on ne end by which a bit of paper, cloth, or horous substance of any suitable Torning Spools, bobbins, etc.-David Dick, Corning,N. Y.-This inven tion relates to a machine for turning spools, bobbins, and other wooden articles of a similar character, and has for its object rapidit
and an automatic operation of the several parts throughout,
Combinird Shoved $\triangle$ ND SIFTER.-D. Boynton, St. Johnsbury, Vt.-This invention relates to a combination of a are shovel and sifter, and it consigt in providing a shovel with a supplemental bottom in which a screen is in
serted, the bottom bengngo arranged or disp osed within the slovel as to ad-
mit of separate discharge forthe ashes, and the shovel provided with a mit of a separate discharge for the ashes, and the shovel provided witia a lid or cover, all being arranged in such amannerthat the ashes maybe shoveled ap and the cinders separated from it and the ashes discharged from the
shovel so as to leave the cinders clean and in good condition to be placed shovel so as to leave the cinders cl
upon the fire whenever required.
Spring Bed bottom.-George Widdicomb, Grand Rapids, Mich.-This in vention has for its object to furnlsh an improved bed bottom,
struction, very elastic and wholly without noise when in use
Preserving Egas, Meats, etc.-Charles Boize,New York city.-This inventionconsistsin the use of argillite or argillaceous scbist or slate finely powdered as a medium or means of packing or surrounding the eggs or
other artcles, whereby they are enabled to be preserved and maintaine resh and suitable for being transported fro.n place to place without becom ing deteriorated or rendered useless. The slate employed is suscep
use over and over again and not in the least beconing deteriorated use over and over again and not in the least beconing deteriorated.
Bett-FABTENER $\triangle N D$ Tightener.-Charles O. Pike, North Leverett, -This invention relates to a device for fastening the ends of a belt, and for of the belt together, and a lever arrangement fitted to the clamp for tighten ing the belt.
Seed-Planter.-William R. Mozier, Higginsville, Inl-This invention has forits object the furnishing of an improved seed planter, 80 constructed as to
furrow the ground and drop and cover the seed; and which, by removing he sub-dropping device, may be used to cultivate the erop.
Inside Window-Blinds.-S. W. Shorey, Galesburg, Ill.-This inventionre ates to a method of constructing and operating inside bluds for the win dows of dwelling-houses and pubis thilding, and it conted together, and manner in which the slats forming the blind are connected togethen,
Excavator.-B. T. Stowell, Quincy, Ill.-This invention relates to a new method of constructing e
Sail Safe.-F. G. Oehme, Plymouth, Mass.-This invention has for its ob ject to prevent the capsizing of sail-boats, by securing the sail with an appa ratus which may be set so as to release the sal
Cultivator.-Henry Howe, oneonta, N. Y.-This invention has for its obect to improve the construction ot cultivators so as to make them more onvenient in operation.
Equilibrivm balanoe for Safetr-Valves.-Virgil D. Green, Watertown, Wis.-The object of this invention is te
spring in the spring balances in common use.
Washing-Machine.-Thomas Q. Frost, Indian River, N. Y.-This invention

