ing lip to be let into the inside of the jamb, and held by crews, which, when the door is closed, are covered by it edge. On the back of the catch, is also another projection through which one or more screws pass into the casing. These screiss resist the shock of the spring bolt of the lock and those on the inside of the jamb the strain upon the door itself, in a direction at right angles to their leng th. Thus it will be seen that the catch is secure against all chance of accidental displacement
It was patented through the Scientific Amcrican Patent Agency May 21, 1867, by George W. Da Cunha, who may be addressed relative thereto at 311 West 36 th street, New York City.

## "Portor Spare that Trunk.,

The Philadelphia Ledger says-and we know it is so-for we went traveling once, that at this season of the year the above is a daily and hourly request at the stations on all great lines of railway; but it is by far too often a vain request or down goes the trunk with a crash-the lock is broken an he contents of the unfortunate receptacle are scattered ove the ground to the dismay of the orner and alarm of othe ravelers around, who are left to anticipate a similar mishap to their own baggage. If the sufferer be a lady, and, as hap pens every now and then, without a male escort, she is obliged to look helplessly at her dresses and articles of toilette rolled in the dust and dirt ; and if gathered up and stowed a way in the trunk by some good-natured person near, they are in a sorry plight. The porter or bagage man in place of apolo gizing for the mischief which he has carelessly done, wil most likely be heard to growl and mutter words of insolence rights. Baggage-masters and their assistants are often equally as reckless as the surly porter, of a decent regard for the pro perty entrusted to their charge, as shown in the way in which they toss our trunks and other luggage, or throw them from one part of the car to another. Ladies are not the only sufferers by this abominable practice. It may be alleged that these cases are exceptional, and of rare occurrence. Most
travelers will tell us, in reply, they are incidents witnessed on every long line of railroad, and especially in the summe months, when so many leave their homes in pursuit of health and pleasure. Very pleasant indeed to have one's trunk
smashed and clothes spoiled! There seems to be a fixed de termination, on the part of porters who carry luggage to steamboats ancl depots, and from them to hotels, to test the strength of trunks, and as far as in their power, snap the iron bands, to break off straps, which they seize held of in place of the handles, and to wrench hasps and bolts of locks from their fastenings. There is an apparent trial to ascertain which has the greatest power of resistence-the trunk, or the pavement, or the platform, when the first is thrown down as if it were in the performance of some gymnastic feat for a wager. Is it not time that there should be a class of civil zed trunk carriers-of men who understand that they shonld be careful of goods intrusted to their care.

## Now Base for Artificial Teeth.

Dr. G. F. J. Colburn, of Newrark, N. J., has invented a sub stitute for rubber in dentistry, which promises to be of much value to the profession. It is in reality a cement of which the value to the profession. It is in reality a cement of which the
mineral asbestos is one of the ingredients. Asbestos is a mineral asbestos is one of the ingredients. Asbestos is a
very peculiar substance. It is exceedingly light, and so very fibrous in its nature that it may be spun and woven like cloth, in which condition it resists fire, water, and many of the acids with complete success. Taking advantage of these natural qualities Dr. Colburn has, by long study, discovered additional substances, which, when united, form qn artificial base that possesses remarkable toughness, adherence strength and lightness. The ease and freedom with which it can be molded is a strong recommendation. It can be readily applied to gold, platinum and other plates. We have
seen some full sets of teeth on aluminum plates that were seen some futiful. This new base contains no ingredients in-
truly beautifer jurious to the health of the mouth or system. It is not af jurious to the health of the mouth or system. In is notar
fected by acid secretions, is free from all taste, and is inodor fected by acid secretions, is free from all taste, and is inodor-
ous. We hope that its merits will be thoroughly tested. Patents have been allowed.

## Agricultural.

There are 23 applicants for the position of Commissioner of Agriculture, made vacant by the death of the Hon. I. Newton, viz.: Norton S. Townshend of Ohio ; John A. Warder of Cincinnati; Thomas Brown of Ohio; Col. Capron of Illinois; the Hon. John B. Clark of Missouri ; the Hon. James Birney of Michigan ; the Hon. L. Clandler Ball of New York F. M. Blair of Washington, D. C.; William H. Ludlow of New York; Oliver H. Kelly of Minnesota ; A. S. Paddock of Nebraska; the Hon. James R. Hubbell of Ohio; Isaac Newton, jr., of Pennsylvania ; Thomas P. Robb and Solsom Dorsett of Illinois ; E. C. Wilson of Pennsylvania ; R. J Powell, John H. Klippart of Ohio ; the Hon. Frederick Holbrook of Vermont; James $\mathbf{S}$. Grinnell of Massachusetts; Wrilliam H. Russell of Washington; the Hon. W. T. Lemosy of Virginia, and the Hon. E. H. Hyde of Connecticut.

## business and manofacturing ttems.

The capital invested in agriculture in England amounts to $£, 3311,000,000$, returning a proft tor 13 per cent.; the captal invested in manufaclures to s213,000,000, and the annual proft tis 120 per cent.
The French ladies spend 8,000,000 francs per year for corsets, $15,000,000$ for
gloves, and $10,000,00$ for bonnets. False diamonds coss them $1,800,00$ france 5loves, and $10,000,000$ for bonnets. False diamonds cost them $1,800,00$ francs,
talse teet $1,50,000$, Flass eyes 84,000 , masuuerade dresses 73,000 , perfumery talse teeth 1,500,000, glass eyee 84,000, m maquerade dreses 733,000,
and cosmetics $22,000,000$, Pans $5,000,000$, artiflicial fowers $28,00,000$.
The directors of a rallroadin New Jerseg aresald to haveoffered to parties $\underset{y}{\text { Fhaowh }}$

Since the year 1861, there have been sunk in the United States 7,930 on
vielding a total product of about $11,640,670$ barrels of crude petroleum The universal beliefin abundant crops this year, has brought a class of 8 , lators into the field who have bought up all the grain bags in market, muc the disgust of the farmers. The marketfor reapers and $m$.
ocome quite active in preparation for reaping the new crop.
The works of the Boston Belting Company, at Roxbury, Mass., the larges establishment of the kind in the country, covers five acres of land and con.
stantiy employ 150 hands. Packing for machinery, engine hose, and tubing. stantiy employ 150 hands. Packing for machinery, engine hose, and tubing,
are among its products. The consumption of stock at the present dull season are among its products.
Watch chains are now made by machinery by the pioneer firm in this lin in New England-Sackett, Davis \& Co.. of R. I. The machine is their own in
vention, and ispronounced one of the most ingenious and elaborate pleces o work ever devised. By means of it bar gold is transformed rapidly and without noise into the most delicate, or substantial fob and vest patterns of chains.
In the exportation of conl, Erie, Pa., ranks second in the United States
ver 250,000 tuns was shipped Irom this portduring the year ending Jan 1 1st Ver 250,000 tuns was shipped from this port during the year ending Jan $18 t$ 1867. The bitnminous coal is taken to ports on the upper lakes; principall
to Chicago. The return freights arc made up from Lake Saperior copper. The projected railroad from Atlanta, Ga., to Decatur, Ala., whencompleted Memphis and Charlesion.
The Chicago tunnel cleared forty-six thousand dollars for the contractor he project of a great park at Chicago was defeated at the recent election. Sargent \& Co., of New Haven, have the largest hardware manufactory in
he country, employing 800 hands, and turning out 4000 different kind of art les, valued at from $\$ 1,000,000$ to $\$ 7,000,000$ per year.
English authorities estimate the proportion of passengers killed in Great
Britain by railway accidents, as oaly one in four millions; the number of emBritain by railway accidents, as only one in four millions;
loyees killed is very much larger than that of passengers.
The American Steel Company will soon erect works at East Bridgeport, fo he manufacture of cast steel.
A company of capitalists are abo
J., for the manufacture of nalls.
The Boston and Worcester rallroad, on one day during the recent visit o the President to the former city, carried more than 21,000 passengers, the largest number ever transported over the road in a single day. Not one of
these was injured, nor was there an engine or car off the track. The super. hese was injured, nor was there an engine or car off the track. The super are, fidelity and attention on this occasion.
A road locomotive was successfully tried in the streets of Rome, recently, Pontifcial staff.
At St. Anthon's Falls, Minn., there are six mille, each of which turn out $, 000,000$ to $12,000,000$ feet long lumber, per year. Last year $30,000,000$ shingle were manufactured in this vicinity. The flour mills at this point have a ca

## Cefitotial summary.

deates by Chloroform.-As early as 1859 Barrier de Lyon ascertaine hat there had been over two hundred recorded deaths from the administration of chlorotorm as an anesthetic. In the next five years, Diday reported twenty-oneregistered cases, and at least as many unregistered, in England
alone: Some cases, Ilke that at Bellevue Hospital last winter, could not be attributed to any impurity of the artcle or imperfection in the administra any of hisetherized ones. Unlike ether, the action of chloroform continue after its application is stopped.
Gigantic omnibuses, on a new model, have been constructed in Paris, ecially for horse races and other out-door sights. They are so contrive
hat upward of fifty persons can be seated on the roof, and thes constitute kind of traveling grand stand.
California Marble.-A pure white marble of a superior polish, and rival
ane the finest Italian, has been discovered near Colfax, Cal, and only twi miles from the Paciflc Railroad.
A lover of potators.-A wealthy ci:izen of Berlin has applied to to Ancipality of that town tor a site on which to erect a statue to Francib
Drake, as the introducer of the potato into Europe, and offers to subscribe \$11,270 toward it.
Salmon in a distralia.-The latest experiment in pisciculture has been the raising of the salmon in the river Dcrwent. Three years since the first batch
of salmon ova arrived on those shores, having been transported sixtcen thou and miles on ice. After this protracted journey the fish hatched from th va, were tnrned out into the river, and now the iohabitants are rejoicing
over a fine run of veritable salmon.
r
A Monster Cererf tree now growing in Reading township, Ohio, ha Atained the hight of 80 feet, and is four feet one inch in diameter. It is of the "black heart" variety, and the seed was brought from Berks County
Pa., in the year 1817.
Parisian Pine A pplessare made by baturating turrips with a sirup whic
the confectioners know very well how to manufacture. The resulting frul is confectioners know very well how to manufacture. The resulting fruit
is delicious, and is quite popular among the Exposition visitants In this city, a few days since, it was testified in court that the jellies sold as made from strawberry, pineapple, and other fruits were all formed out of apple jelly, colored and flavored with essences to suit the name.
SWitzerland has $3,500,000$ inhabitants and 345 scientific and literary publi cations, while France, with ten times the population, has but about 500 jour
nals and magazines. The solution of this is ia the fact that in Switzerland he people all receive some education, and consequently can read, and take he papers, while in France less than one half can read
Transpianting Full-arown trers.-Thirty beautiful elms fully forty feet in hight, were removed from their native forests, and replanted in fron of the site of Congress Hall at Saratoga, to take the place of the trees de stroyed by fire. They are now in full leaf and appear to be thriving ander
this singular treatment. The same thing has been successfully accomplished in Scotland, also in Paris,
Tie bani of england has $30,000,000$ in gold coin now on hand, there bein no call for it, notwithstanding the low rate of interest. This is owing to dull
ness in business, and the falling off in the foreign trade, which has been ten er cent sunce September las:
Serep-shearing by Wind.-A man in Wisconsin has a patent Bheep-shear ing machine which operates just like a reaper or a mower, and mows a swath engine in the handle, which is to be driven by a force pump or bellows for wind into it by a flexible tube.-Beaver Dam (Wis.) Citizen.

A new method of vitrifying the surface of iron has recently been intro duced in Paris. Instead of covering the surface of the fron according to the usual method with a very fusible glass in powder and then bringing the iron to a red heat. the materials of the glass are lald upon the iron, which the iron be -
until perfect vitrification takes place. The consequence is that the until perfect vitrification takes plsce. The consequence is that the iron be
comes oxydized, and combining with the silicic acid, theiron and glass form one substance. The coating may be as thick as desired, bat it is found in practice that a thick coat of glass soon breaks away, while a thin one lasts for a long time. The method is being applied or tried upon armor plates for ships.
TaES TaE STRawberry growers of Vineland, N. J., during the seasonjust ended
raised nearly 278,000 quarts of strawberries, valued at $\$ 33,000$. Ot these 68,000 quarts were consumed or canned at home, and the balance were shipped to quarts were consumed or canned and home, and the balance were shipped so
Philadelphia, New York, and other points. An Ohiof ruitgrower succeeded this year in raising one bushel, three peckeg, and three quarts ofatraw
berries inom a \&quare rod of ground.

A Room FVLL of Cold.-Pure gold is nineteen times as heavy as wator and as a cubic foot of the latter weighs a thoucand ounces avoirdupois, the more than eighteen dollars per ounce, or the whole would be worth a little more than a third of a million dollars. The amount of the preciousmetal now existing is estimated at $\$ 5,950,000,000$, in value. If now this was melted, the resulting mass would have nearly 660 cubicyards, and might
room five yards higb, eight yards wide and sixteen yards long.

Soure beef which was deposited in tins beneath a heap of stones in Spit bergen, by Capt. Parry, in 1827, was recentlydiscovered, and a portion was
cooked and eaten at a supper in Stocklholm, after being preserved for forty

Miners' Lamps.-Notwithstanding that every English miner whois d tected in unlocking his safety lamp is liable by law to three months' impris. onment, the offense is committed with impunity by means of false keys. A mple plan has been invented by a manufacturcr of these lamps, for sealin hem without using any lock. When the staple has been put down over the
ye, a emall leaden pin is inserted in the latter, hen being placed undera hor zontal press fitted with two dies, the shank of the plug is formed into a head, and both heads are impressed by the dies withany lettering or device.
Panisians are fond of confectionery. According to the Chamber of Con
Devilue has lately made the observation that the addition of a little zinc malgam to ordinary $\begin{gathered}\text { bolder makes it applicable at low temperatures to }\end{gathered}$ uicksilver would not be objectionable.
The Sefenteen-fear Locubts have made their appearance over a belt of country, just northwest of Wilkesboro, N. C., extending far northeast an confrmation of the claims of these insects to their popular name, that thi dentical strctch of country was visited by them in 1950 and not since.
Francri realizes over seven million dollars annually from the door and the sale of gunpowder, abont two and a quarter millions. The sum o
over forty-bve millions dollars accrues from the sale of tobacco alone. For he administration and collection of the revenuz she actually pays nearl rty million dollars.

Fejiale labor.-In Itaiy about one third of the whole number of laborer engaged in agricultaral pursuits are women. In her manutactories $1,692,740$ emales and $1,379.605$ males find employment. Out of 531,435 artists, nearl one fourth aro women. There are 257,407 remale landed proprietors there,
and 313,497 maid servants. In France nearly one half the labor of almost all and 313,997 maid servants. In F
Tef Panama Railwat.-Since the constraction of this road across the sthmus it has carried nearly 400,000 passengers and $\$ 675,000,000$ of treasure shipments over the road are radually declining and most of the silve shipments over the road are gradually declining, and most of the silve
transported is shipped to the isthmus from the Pacific coast of South Amer ica. Of freight, theroad has transported 614,535 tuns, but this year it is estmated the trafic will amount to 150,000 tuns. America now contross the
road, which runs through the territory of New Granada, but England is mak road, which runs through the territory of
ing great exertions to get posscssion of it.
SINCE 1887 there have been establiphed throughout the world 160,000 mile telegraph lines, comprising 400,000 miles of wire, and workiug throug nearly 14,000 stations. The total leopth of ores in 19,023 miles. The
Eggland.
Tel Continental Hotel at Long Branch, is 700 feet long. A continuou piazza fronting the ocean extends its whole length
Ir is calculated that 64,000 persons wear decorations of the legion a lonor. A great legion, but no remarkable honor.

## Becent gurcticay aud forcign eqututs


Brice Kiln.-Andrew S. McBride, St. Louis, Mo.-This invention relate a new and improved brick kiln, so constructed that either coal or wood may be used as a fuel, and a great saving in fuel is effected and th ring the kiln constructed with ascries of tire chambers tending its whole length, with the smoke stacks at each cnd, and having the op of the kiln constructed of a series of dampers or adjustableslats, whereby he advantages above described are obtained
Gang Plow.-Robert R. Grives, Montgomery, Ala. Patented July 0th. 1867.-In this invention the dip of the plow is regulated, and means arc pro vided by which upon enco
without backing the team.
Broom Head.-Lewis Allen, Berkley Springs, West Va. Patentdated July are of the sewing twine and with a confining band, also pierced and retained on the socket by grooves in the latter.
Sawisg Macring.-James R. Logan, Bellmore, Ind.-This invention re of the carriass-cut sawing machine and consisis in a peculiar construction of the carriage on which the machine is mounted, whereby the frame ot the
machine may be retained in a horizontal position when placed on uneven or inclined ground. The improvement also consists in a modification of the construction of the standard or support to which the saw bar is attached
when sawing felled timber ; and, further, in the employment or use of a pe cullar saw gaide.
Steringe apparatub.-Thomas W. Murray, New York City.-This in STERRing Apparatus.-. Lomas w. Murray, New York Chy.-This in-
ventionrelates to a steering apparatus to be applied to the head of the rud
der post of a vessel der post of a vessel, whereby a vers.
ism is obtained for the purpose.
Stripping Hides from beeves and oterer animals.-Christopher Brühl, Greenpoint, N. Y.-This invention relates to a useful machine for stripping hides from beeves and other animals, it being designed tosupersed the manual prosecution of such work whic
considerable expenditure of time and labor.
raking attacembent for Reaperb.-John C. Hall, Monroe, Wig.-This invention has for its object to farnish an improved selfr-raking attachment
forreapers which shall be so constructed and arranged as to imitate the natural movements in raking the grain from the reaper by hand
manufacture of bona Handles for Parabols, Caiks, Eto.-Joseph Harvey, Philadelphia, Pa.- Bone has long been used as a material for the manufacture of parasol, umbrella, and otner handles, but it is not employed
as extensively asit would be, provided sufflcient stock could be obtained of as extensively asit would be, provided suffcient stock could be obtained of
proper size. This invention is to obviate this diffculty; it consists in con structing a bone handle of pieces connected together in a novel and very secure manner which will admilt of a handle of the largest required sizs
being made tor various articles, including those enumerated.
Governor and Stop Motion.-F. J. Nutz and Philip Estes, Leavenworth Kansas.-This invention consists in an arrangenent whereby the ordinary
centrifugal governor is controled in its action and assisted to perform its centrifugal governor is controled in its action and assisted to perform its proper functions as a regulator of motion, and also in a devi.
closing the valve and stopping the engine in case of accident.
LadDEr.-Benjamin F. Turner, Bridgeton, N. J.-This invention relatcs an improvement in ladders, for connecting several short lengths of separate
ladders, in such manner that they may be readily and safely extended to be used asonelong ladder, for a high elevation, or may be doubled upon each ther to be used as a scafloid, or as a stage ladder, and thus be employed for

