## treatises and inventions desired in FRANCE.

We find in the last number of l'Invention a list of the prizes offered by the Industrial Society of Amiens, and though it is too late for competition from this country, the list may be interesting; we accordingly present a brief translation.
First-Memoir on the fabrication and sale of bricks in the department of the Somme. Silver medal.
Second-Memoir on the construction of the buildings and the arrangement of the machines for the manufacture of linen, cotton and wool cloth. Gold medal.

Third-Memoir, with designs on machines, for raising the materials in constructing buildings. Silver medal.
Fourth-Prize for the inveution of a pyrometer for measting the temperature of the gases escaping from the furnaces of steam boilers. Silver medal.
Fifith-Prize for the best heaters of steam boilers in the department of the Somme. $\$ 100$.
Sixth-Prize for the invention and application of a good meter for measuring the water fed to steam boilers. Gold medal.

Seventh-Prize to be distributed to a certain number of workmen of the department, remarkable for their conduct, labor, morality and devotedness.
Eighth-Construction of a power loom in which the feed and take-up shall proceed regularly without requiring any manual adjustment trom the beginning to the end of the work. Gold medal.
Ninth-Construction of an automatic knitting loom making the return stitch. Gold medal.
Tenth-Construction of an automatic knitling loom, making the return stitch and narrowing. Gold medal and $\$ 20$,

Eleventh-Prize for the best description of a spinning of wool mixed in all its parts. $\$ 60$ given by M . Vayson.
Thoelfh-Prize for the best description of a dyehouse for dyeing woolen yarn in the skin; the heating to be done by steam, which must also supply a small engine. $\$ 40$ given by M. Vayson.
Thirteent/l-Prize for the invention of a good dress ing or facing for linen cloth. $\$ 20$ given by M. Boudard.

Fourteenth-Memoir ou the improvement of lands. Silver medal.
Fifteenth-What will be the advantages of the cultivation of tobacco in the department of the Somme. Silver medal.
Sixteenth-Indicate new means for the preservation of grains in store. Gold medal.

Seventeenth-Present the finest and richest collection of woods of the country, worked and in the rough. Silver medal.
Eighteenth-To find for the velvets of Utrecht, a dressing filing the following conditions:-1st, To be without odor; 2d, Not to alter, either in color, softness or brilliancy; 3d, To preserve the softness on the tissue; 4th, Aclapted to any length of nap. Gold medal and prize of $\$ 20$.

Nineteenth-To find the means of producing the bitartrate of potassa, otherwise than by deposit from wines. \$200.

Twentieth-For a composition which in dyeing woolens will replace with a notable economy tartar in colors requiring the employment of the salts of t :n. \$200 and a gold medal.

Twenty-first-To find the means of giving immediately and with economy to the decoctions of Campeachy the tinctorial force which they acquire only by age. Silver medal.
Twenty-second-To find for dressiug cotton velvet a preparation which will replace animal glue, at the same time giving suppleness to the tissue, and preserving to it the strength necessary for sale. The mucilage must be economical, without odor, and without action on the colors. Gold metal.
Twenty-third-For specimens of cotton velvet having the qualities of English velvet in color and solidity. Gold medal.

Twenty-fourth-For an easy means of detecting the adulteration of oils. Gold medal.
Twenty-fifh-For a better means of bleaching cotton velvet, cut and not cut. Silver medal.

Iwenty-sixth-For a lubricating oil. Gold medal.
Twenty-seventh-The invention of a machine to
measure in a practical manner the lubricating qualities of oils.
Twenty-eighth-A means of applying in a practical manner hydrate of alumina to the filtration of sugars. Twenty-ninth-A memoir on the use of trade marks, and the means of rendering them practically efficacious.
Thirrtieth-To set forth the advantages and the inconveniences which result, in both a moral and material point of view, from an increase of the working population in the great manufacturing centers, in consequence of the development of industry. Gold medal.
Thirty-first-Study on the industrial arts in the department of the Somme, and on their progress or decline from the thirteenth century to the present time. Gold medal.

Thirty-second-Study on the habitual maladies of the workmen of the department of the Somme, following their diverse professions. What are the hygienic measures to be employed for each class of workmen ? Gold medal.

## "Cannel Coal."

About a century agothecelebrated Duke of Bridgewater was the proprietor of a large estate situated at a place called Worsley, seven miles from Manchester. This estate contained numberless valuable coal seams, casily to be got at, but nevertheless comparatively worthless, in consequence of the great expense and difflculty of transporting the coal to market. The Duke, being a singularly enterprising individual, determined, if possible, to remedy this defect, and by one of those happy coincidences which so frequently reward a praiseworthy effort, he found, in the selfinstrncted genius James Brindiey, the very man to contrive the means for securing the desired end. Suffice it to say that Brindley constructed an excellent proft-paying canal between Liverpool, Manchester, Worsely, and the Great Wigan district. This canal appears to have been floished about the year 1766, and store-houses were built at various points at its course, where the Duke's coal was deposited, for the purpose of supplying the immediate neighborhood. At this time the word "kennel" or "kannel" ws. generally employed in Lancashire and Cheshire to designate an artificial watercourse; and even Brindley himself, in some of his letters, speaks of a new nudertaking as " the Duke's kennel." It is not, therefore, surprising that the Duke's coal should have received the name of "kennel coal," being, so to say, kennel borne; and this name would be peculiarly applicable at Liverpool, where sea-borne coal from Whitchaven, in Cumberland, had long been in use, and was, moreover, an article differing in many of its qualities from the Duke's coal. That this is the true origin of the name now applied to this kind of coal is further established by the fact that the eminent geologist Werner, who visited the coal districts of England not long after the above period,has adopted the very word, and in speaking of the Wigan coal calls it " kennel kohle." This word has indeed been lately written " cannel" in tinis country, and some ingenious persons, finding themselves quite at a loss to discover the source of such a name, come to the conclusion that it is derived from the word "candle," and to support this they have,asserted that slips of this kind of coal will burn like a candle; an assertion which we need hardly say is altogether tabulous.-Newion's Journal of Arts.

## SPECIAL NOTICES.

James Warren, of Springfield, Mass., has petitioned tor the extension of a patent granted to him on the 15th day of July, 1851, for au improvement in revolving breech-loading fire-arms.
Lewis Lillie, of Troy, N. Y., has petitioned for the extension of a patent granted to him on the 15th day of July, 1851, for an improvement in fire-proof safes.
Parties wishing to oppose the above extensions must appear and show cause on the 26th day of June next, at 12 o'clock, M., when the petition will be heard.

White-wasied walls which are to be papered should be well brushed over with strong vinegar previously, or the paste will not adhere.
IT Is asserted that the disbandment of Lee's army has reduced the expenses of Government $\$ 1,000,000$ a day.


ISSUED FROM THE UNITED STATES PATENT-OFFIC for tee week ending april 25, 1865 Exporiad ofically ior the Scientuct $\Delta$ merkon.
ser Pamphlets containing the Patent Laws and ful particulars of the mode of applying for Letters Paten $t$ specifyling size of model required and much other in formation useful to inventors, may be had gratis by addressing MUNN \& CO., Publishers of the Scientific American, New York.
47,374.- Slide for Extension Table.-Erastus P. Allyn North Canan. Conn.:
cast-10im a a alide or or extenion tablea manuractured of malleable
 as herein described.
[This invention consists in having a series of alldes of malleable cast-iron, and fitted together by means of dovetall projections and grooves, and provided with stops, whereby a very economical and desirablesildetor the purpose specilied is obtained, and the annoy-
ances and embarrassments occasioned by the shrinling, awelling ances and embarrassments occasioned by the shrinking
and warping of the ordinary wooden alldes are avol ci d.l
47,375.-Coffin Handle.-Ira Almy, Farmer, N. Y. : I claim a detachable coffin handle, secured to a codn through the
medlum of a plate applied in the manner substantially asshown and
[The object of this lnvention is to obtaln a handle whlchmay be readlly applied to a coffin, and detached from it in a moment of time, and without the ald of any mechanical tools, whereby a set of handlesmay be appiled to an indefnite number of coffins, the rormer being apphed to a comon when the bods is plac dinit, and place.]
47,376.-Paper Bag.-James Arkell, Benj. Smith and
Adam Smith, Canajoharie, N. Y.: We clajm as a new article of manutacture a quadrangular paper
por [This invention c
a way as togive to them at their upper ende a flexible character, so that when properis filled with flour or other substances the sides of the bags at their upper ends will come together after the manner of the sides of a cloth bag.]
47,377.-Steam Engine.-John Baird, New York City : I claim, Firat, A horizontal engine. pronded with a box raming
near and aithehed the cyinder, and cookiling rericcal pampa Bubstantialiy as described, said rramlng alio constituting the con
denerer or the channel wasp thereof.
second, 1 claim a horizonal cagine. having a box framing, con-
taining pumpa and an independent

 engines have openings througl the framing for the paeange of
propeller shartor sharis, substant ially as her elnbefore described. 47,378.-Table and Desk.-Cyrus Baldwin, Manchester N. H.:

I claim the combination of the table and
ranged to operate substantialiy as set forth.
47,379.-Hay Rack.-Goldsmith Baldwin, Blufton, Ind. set forth
47,380.-Cultivator.-Lester B. Barton, Metamora, Ill. I caim the hinged or lointed rame, E. placed within the main
rame, $A$, 8 ,
 [This invention relates to an improved cultivator, of that class in which the pluws or shovels have a lateral adjustable movement, in order that they may be made to conform to the sinuosities of the rows of plants, and cast the earth up to the same or cast it there from, without the liablity of plowing out the plants or injuring the roots thercof.]
47,381.-Coal-oil Burner.-W. W. Batchelder, New York Clity :
City : cilite employment, in combination with a tnbular wicts
nolder and vapor or sas-gencrating and alr-mixing chamber, of a bolder and vapor or tas-genicrating and alr-mixing chamber, of a
perforated plate, or the equivalent thereof, together wina metallic
or other hent conductor or conductors projecting downward and per forated piate, or the equivalent thereof, together with a metallic
or other hent conductor or conductors projecting downward and
dipplag into the wict. aubstantially in the manner hercin described, dipplng into the wick, substantiall
for operation as herein set forth.
47,382.-Microscope.-J. J. Bausch (assignor to Bausch clalm the combination of, Nhe object piece, A, eve plece, B, and I calm the combination of the object piece, A, eve plece, B,
sprina; $\mathbf{c}$, substantially as and for the purpose berein set fortu. 47,483. - Churn. - Charles F. Baylor, Clinton, N. J.:
I claim the combination of the belt and rollers, subgtantially as de-
scribed, with the slides, $S$ and $T$ attached to the dasher shats, and scribed, with the slides, , and T attached to the dasher shafts, and
the block or attachment, J, dervipg to notions foum the hand
crank an it s conncetions, as dcecribed and represented crank andits connections, as described and represented.
7,384.-Shaking and Rocking Table for Amalgamating
Gold, Etc.-Adolph Behr and Wm. James Ward, Gold, Etc.-Adolph Beh
Black Hawk, Colorado :
We claim a 8 hakling or rocklog cable, with amalgamated copper or
brass rifes or itional quicksifer, alone ar in connection with one or more wooden
 snbacances suspended 10 water both the aindingand splaghlngmotion
Which throwi and forces the particles in contact with tise amal
gamated surface of the copper or gamated aurface of the copper or brass rifies or groovee.
47,385.-Manufacture of Soap.-Jacob B. Bennett and James S. Gibbs, Buffalo, N. Y.

combinationa, an
quality of soap.
47,386.-Straw Cutter and Feed Mixer Combined.-E. F.
I clalm the special arr unsement of the hopper, H, mixer, F , shaft,

