## Sicurtifir American.


 the combination of the annular ring, I, with the plunger,
the latter having amaller diameter than the ring and
cylinder, constructed arranged and operating substancylinder, constriucted a arranged daterd than the ring opering su
sially in the manner and for the purpose set forth.
 I claim the described cellular paper or papes
the purpose of underlaying carpets on floors.
[The fabric which forms the subject of this patent con-
sists of thick paper or paper board, made cellular by persists of thick paper or paper board, made cellular by per-
forating it thickly. When it is laid between a carpet and a floor, the dust. which is always driven in greater or less retained in the holes or cells, leaving the carpet much cleaner than if placed on the bare floor, or with straw
under it, in the common way. Italsoobviates the neces. sity of taking up the carpet so frequently to beat and
shakeit, as it keeps quite clean until all the cellsare shake it. as it keeps quite clean until all the cells are
filled with fine dust. This fabric lying under carpets, by securing the dust underneath not only makes the colors appear more fresh, but also serves to make the carpet useful and good, and will, no doubt, come into genera use. It has been assigned to J. S. C. Thursby, rope man f Brooklyn, Eastern District.]


 scribed, by which the spool frame required at each oper
stion isbroughtown in close proximity with the tuting
warps and then carried out of the way of the lay when




 cut herein. in combination w
hinge. C, the whole teine arr
for the purposes described.
Crushing Rollers for Ores-Wm. H. Plumb, or
New York City I claim the construction, combination


CIDER MLLs-Benj. Mackerley, of Now Petersburg.
Ohio I am aware that round teeth whose sides are Ohio: 1 an aware that round teeth whose sides ar
spiraily and annularly grooved have been used onn
cylinder, and within toncave combined therewith.
I claim the combined use of flat-sided saw edged teet cylinder, and within the concave combined therewith.
I claim the combined use of tat-sided saw edged teit
upon the cylinder and within the concave, substantially upon the cy
as set forth.
Tlool FOR TENONING, \&c.-Alfred Tippett, of Wash
ington. D. C. I claim so making of the chise ls adjusta hbe in the stock as that they may be made to ant alasoa
dovetail tenon with the same toin and without reversin dovetailt tenon with the same tool, and with thout reversing
the same, and oo that said tool may be used in iny ondi
nary mortising machine, a nd thus a aooid the expense nary mortising machine, and thas avoid the expense o
wo machines, the whole being arranged specially as sel
Wrth and for the purposes described. re-hsues
 July 16th. 1842 . I claim the combination of the virbra
ing nnife, o or tit sequivalent. With the futed roller, $O$
rits

 ed of on which the looping needle works or is situa
I further claim the method of arranging the feed motion
or mechanism, the feed wheel thereof being disposed horizontally, and its teeth made to engage with those o
the rack situated in thertical side of the clamp. the
whole being substantially as specified.

A Patent Case.-Confusion Confounded.
Sickles' Cut-off.-On the 6th inst., before Judge Nelson, U. S. Circuit Court, this city, a very important case was decided respecting the infringement of the patent of Sickles' cutoff for steam valves.
The parties were Sickles against Wm. Borden, proprietor of the splendid steamboat $M e$ tropolis, running on the line between this city and Fall River. The complaint was that the cut-off used on the Metropolis, known as "Alไen \& Bell's adjustable cut-off," was an in-
fringement of Frederick Sickles' patent, grant two years, so that a new action would cover ed May, 1842. The case was before the court its use up to the 20th of May last, the date on for about two weeks, and was defended by which the patent expired. At the rate of $\$ 750$ Messrs. Stillman, Allen \& Co., of the for sixty days use, the amount for two years Novelty Works, this city, Mr. Horatio would be over $\$ 12,000$-a rather snug sum. Allen, the inventor of the cut-off against This case we hold to be a very remarkable which complaint was made being the princi- one. Here we find a company sued for dampal witness. The defence rested mainly upon ages for infringing a patent which the Patent the ground that there was no infringement of Office bas declared was issued illegaliy, and the Sickles patent; that the cut-off on the for which an extension was refused, as set Metropolis was essentially different from that forth on page 309, of our last volume, on the Metropolis was essentially different from that. forth on page 309, of our last volume, on
of Sickles. The Court charged the jury in |grounds that it was not the invention of F. favor of the plaintiff, and after a very tew Sickles.
minutes the jury returned a verdictagainst the Mr. H. Allen, who is an experienced engidefendants, assessing the damages at $\$ 750$, neer and inventor, evidently considered his for sixty days use of the invention, for which cut-off essentially different from that of period this action only covered. It has now Sickles'. The decision of the Jury was based been in use on this steamboat for more tha upon quite a different opinion. Who is right

 Number as

Patents Extended During 1855 The following is the list of the patents which were extended during 1855 . These are never made public until the Commissioner's Report is published, and this is the reason why they do not appear in our regular weekly lists. The extension is for seven years from the close of the first term, or twenty-one years from 1841, consequently they will all expire in 1862, except the two which are dated 1842.
Working the steam valves of steam engines when the steam is cut off and allowed to act ex-pansively.-Robert L. Stevens \& Francis B. Stevens. January 25th, 1841.

Applying Water to Fire-Engines.-Franklin Ransom \& Uzziah Wenman. February 13th, 1841.

Seed Planters.-Moses Pennock \& Samuel Pennock. March 12th, 1841

Cutting Square Joint Dovetails.-William Perrin. March 24th, 1841.
Construction of Iron Truss Bridges.-Squire Whipple. April 24th, 1841.
Form of the Screw Propeller.-Ebenezer Beard. April 10th, 1841.

Pumps.-Jesse Reed. April 16th, 1841.
Constructing Screw Wrenches.-Loring Coes. April 16th, 1841.
Constructing Railroad Carriages to ease the Lateral Motion of the bodies.-Charles Davenport \& Albert Bridges. May 4th, 1841.
Dredging Machinery.-J. R. Putnam. May 6th, 1841.
Machine for Riving and Dressing Shingles.Wm. S. George. May 29th, 1841.
Marine Steam Engine.-Charles W. Copeand. June 11th, 1841.
Endless Chain Horse Power.-Alonzo Wheel er \& Alexander F. Wheeler, Executors of this last will and testament of Wm . C. Wheeler, deceased. July 18th, 1841.
Portable Circular Saw Mill.-Wm. W. Calvert \& Alanson Crane. July 16th, 1841.
Constructing Gins for Ginning Cotton.-Joseph T. Pitney. July 23d, 1841.
Machinefor Removing Buildings, \&c.-Lewis Pullman. August 21st, 1841.
Machine for Sticking Pins into Papers.Samuel Slocum. September 20th, 1841.
Making Pipes or Tubes of Lead, Tin, \&c.George N. Tatham \& Benjamin Tatham, Jr. March 29th, 1841.
Wire Heddles for Weavers' Looms.-Abraham Howe \& Sidney S. Grannis. October 11 th, 1841.

Saw Mill for Re-sawing Boards, \&c.-Pearson Crosby. November 3d. 1841.
Spark . Arresters.-Wm. C. Grimes. February 12th, 1842.
Thrashing and Winnowing Grain.-Andrew Ralston. Feb. 21st, 1842.

Now that the Presidential Election is over we hope our inventors and mechanics will turn their attention more earnestly to the practical wants of the country. We must ge on from one step of progress to another in the practical arts. There is no stand-still policy The demands of the age are not met.
Inventors, send on your sketches and mod els for examination.

We would call the attention of whoever wants an excellent steam engine to the advertisement of S. C. Hill's. We saw the engine running at the late Fair of the American In stitute, and were much pleased with it.
A bed of coal has been discovered by the officers of the U.S. steamer Massachusetts, in the Straits of St. Juan de Fuca.

## Trial of Portable Corn Mills.

At the late Indiana State Fair seven corn mills were tested together. Each mill was made to use eleven feet lever, and to perform twenty revolutions, while their hoppers were kept supplied with ear corn of the same quality. The following shows the average power employed and the quantity of meal made by each mill :-

|  | Lbs.pow | Qts.m |
| :---: | :---: | :---: |
| Excelsior Young America | 382 | 58 |
| Star Mill | 370 | 53 |
| Brant's Mill | 234 | 44 |
| Little Giant. | 387 | 78 |

Eagle and Troy Mill broke down.

