## Sicintific Amarticar.



Issued from the United States Patent Omce for tur weer ming ssptember 22,1857 .

Apraratus for gran and Gias harvestrbs-J.
 the fingers, B, for the purpose set forth.
TThe novelty of this device consists in the peculiar
construction of the cutting arrangement, whereby the construction of the cutting arrangement, whereby the
grass or grain, as the sickle vibrates, is prevented from grass or grain, as the sickle vibrates, is prevented from
beins thrown outward from the fingers by the action of the cutters.]



 forth.
[We have no doubt this will form a useful adjunct to reaping machines, as it sheaves and binds the grain as
fast as cut, and requires but one attendant $\}$




























 [This invention adds an endless apron to an adjusta-
ble frame carrying tlie sickle, and a new discharging device, so that the grain may be cut at varying hights
den as desired. The grain may bo discharged in sheaves or as desi
not.]
nin





















 HAND STAMP T. T. J. W. W. Roortson, of New. York
City: Ido not cliim. broady, he employment ot re-

 Known or thed construction of ha ha
ner described and represented.
Ce Letter and other stam ping is now an important mat-
ter, and the invention is a ter, ant the invention is anand stamp for this yurpose
being especinly applicable where the letters or num-
bers bers have to be repeatedly changed.]



 feeding de
conijintly
set forth.
CThis is a general improvement in eaw-sharpening blocks, which are moved by hand or other power; also an arrangement of hammers to to oive the set to the saw,
an and
and a pecellian feeding device.] and a peculiar feeding device.]




 and for the purposes set forth.'




 feature of a triangie with the foot of the arch, D. rest-
ing upon the tover within the triangle, uubstantially as
set footh.




 [A principal feature in this engine is the floating
abutment, which, although answering all the require ments of a fixed one, willj adjust itself to the changes
caused by the wearing of the fans, or other parts.]















Diring Aperpatre -Geo. Williamson of Rroklyn,






 specififed Inso claim combining a sprino balance or seale
with the cobbine nautilus and fiont, substantially as
whecifed ond forth nuthe specified and for the purpose set forth.

 or their equivalent. operated as anopere set forth, and the
mannor of ele anating and packing the ladders Te elieve to be new and net usem. the extension ladders, neither do In
claim the use of ropes passing around or orver windlasses
col




## 

[These coolers are adapted for casks, and more especially those containing liquids on draught, or those that
are drawn through a tap. and are made to fit on the upper half of the cask or ba rel.]





 When combined with the Fourth, I dalaim dibtributnis types from uniformly

 Yarieties oft typer without requiriny extreme accuracy
in the position of the notches as epecified.










 extension asit mere of said jan to facilitate the aci
or morement of both jaws, substantiall as shown.


CThis invention consists in placing the crank shaft within a frame, which is pivoted to the main frame, and
operated by an eccentric, so that the shaft guiding the operated by an eccentric, so that the shaft guiding the
frame may be easily thrown in and out of gear Latur foz the mandfactore of Choturs Pins,






 deseribed,when used in connection with the chilled rim
of a cast 1 iron wheel.

 arranging or injuriously aftecting the 'automatic move-
ment
 point eceentric to the point.e. so that the palate, p, can
cover or be drawn within the range of the opening, $q$, at




the picture, together with the manner of causing the
becking paper to adhere to the finished picture, thus giving terrenth to overcome the alhesion of the wax,
or ititequivalent, to the plate of glas, in the manaer
apecifect. Mass. ${ }^{\text {Gas }}$ Berxir Sandzs-George b. Foster, of Boston

## Activity at the Patent omse.

Within two weeks past, the Examiners at the Patent Office, under the supervision of the new Commissioner, have evinced a marked degree of alacrity; and at the rate they are now progressing, the back work of the Office will soon be brought up. The Chief Examiner of the Agricultural Class has recovered from his illness, and is back at his post again; and we are assured that those who have had cases long pending in this department will speedily obtain decisions.
There is not the usual number of applications made, at present, owing, probably, to the closeness of the money market; but ws can assure inventors that there never was a better time to apply for patents, and to get justice done in the examination at the Patent Office, than the present.
Advice concerning the patentability of inventions is freely given, without charge, at this office. Specifications, drawings, \&c., are also prepared on the most reasonatle terms, at the Scientific American Patent Agency, No. 128 Fulton street, New York, or at our brancl establishment, opposite the Patent Office, Washington.
All communications should be addressed to Munn \& Co., New York." See advertiscment on another page.

## Crystal Palace Visitors.

We are pleased to be able to state that a greater number of visitors than at any previous fair have entered the building this season. Every evening the whole of that vast space is thronged ; and we have it from good authority that on Friday the 25th ult., no less than $\$ 1000$ was received at the doors, and allowing about 1000 frce admissions for exhibitors, etc., there would be an attendance of 5000 persons. This is a good beginning; we hope it may be kept up throughout the scason.

## The Cotton Crop.

The cotton crop of the United States for the present year, is estimated at $3,000,000$ bales. Allowing 600,000 bales for domestic consumption, and there will remain 2,400,000 bales for export. The present prices warrant an average of sixty dollars per bale, which would give an aggregate value of exports, from this source alone, of nearly one hundred and fifty millions of dollars.

Frederick Sauvage.
Frederick Sauvage, whom the French claim as the first person to conceive the idea of applying the screw as an auxiliary of steam, died a few weeks ago in Havre, France. His fortune and health had been ruined by his labors in scientific discoveries, and his reason had left him in consequence of his chagrin of different kinds.

On the 11th of September last, the first locomotive ever run in the State of Arkansas traveled over the track of the Memphis and Little Rock Railroad, for a distance of three miles-as far as the road is completed from Memphis.

A good antidote for poisons, and one which it is useful to know, is, when poison has been swallowed accidentally, take two teaspoonfuls of ground mustard mixed in warm water. It will operate as an instantaneous emetic

The ant is said by .naturalists to produce 86,400 eggs each day, which continuing for a lunar month, gives the astonishing sum of $2,419,200$. This being about one egg in two econds, very little time is consumed in cackling.
The use of steel axles and tires is common on the German railroads. We understand that they are also being introduced into this that they are also being introdu
country, in a limited measure.

