

## New $\mathfrak{I n v e n t i o n s .}$

New Plan of Etilal and Terra Firma Lo.
Mr. Franklin Kelsey, of Middletown, Ct. has sent us a drawing and description of a new mode of traversing over the hills and the valleys away to distant lands by a combined celestial and terrestrial apparatus. His plan is to erect a wire or other rope on elevated posts, like our telegraph wires-and to have the rope or wires pass over pulleys like an endless apron and to have an inflated balloon and carriage attached to the endless rope to buoy up the car,-the same to be propelled by a steam engine. It is simply an elevated railway combined with a balloon, operated in the mode of the cars on steep inclines. There is ode the in thity expended at grear deal in o construct ærial ship feasible plan of ærial navigation.
Hachine for Turning Irregular Forms. Mr. Allen Goodman, of Dana, Mass., has made some improvements on machinery for urning irregular forms, for which he has ap plied for a patent, and which promises to be valuable. The design of it is principally to turn ornamented pillars for furniture, \&c. H employs the same motion as the common lathe and the cutter is operated in the same wayusing a slide rest, but which is guided by cam patterns on a vertical revolving shaft. A umber of patterns are used on the same shaft and the shaft can be shifted up and down, bringing any of the patterns to guide the cutters at any moment, so as to change or induce modified designs to be turned on the same pillar, or other piece of ornamental furniture.
lmproved Mortising Machine
Mr. Jōn C. Mracomber, or Plymoutn Wayne County, Michigan, has applied for a patent on an improved Morticing Machine, which by the manner the cutters are combined with tension springs, and the manner of regulating the tension of the springs, enable the cutters to be operated by a reciprocating motion so easily regulated by the operative that he can cut the most delicate chip that may be required to make a correct mortise, with an accuracy not surpassed by the mos careful handiwork.

## New Invention.

Mr. Hiram C. Brown, of Xenia, Ohio, an excellent mechanic, has invented a very use ful machine for raising brick, mortar and oth or substances to any required height, thus sa ving a vast amount of laborious work. W might mention several other novel invention originated by him. He has recently obtained etters patent for an improved Weather Strip for doors, \&c.

## Tew Invention in Baking

The Glasgow Citizen (Scotch Paper,) say that a machine has been invented in that cit $y$ which both kneads the dough and moulds the loaves into the required shape, ready for the oven. One machine not quite a yard in length and 18 inches in breadth, by the attendance of one man accomplished as much work as five bakers, and the bread was of the best quality The Citizen also says-but we are doubtful o its correctness-that " by a new and original process of mixing and kneading, which can be done either with or without barm (yeast) the usual loss of weight attributed to evaporation is ' raising the sponge' is avoided, and a great saving of flour, as well as time and labor is effected."
[Were it not for the statement " time and labor" is saved by the latter process, we should bave supposed that it wasthe French mode of making bread, but it takes more time and labor to make, than by the processes now em ployed among our bakers.
The progress of invention is onward. The discoveries of the future must eclipse those of the past.

New Copyling Printing Press.
The Baltimore American says: "We had recently the pleasure of examining a small but very ingenious machine, recently invented by our Townsman, Mr. Oliver T. Eddy, which promises when perfected, to be of very great utility. It is an instrument which will print, withalmost the perfection of an ordinary printing press, a single copy of any document, and with about the same rapidity as the document can be transcribed by a good penman-the copying done by the machine, being ot course, more plain and more easily read. Arr. Eddy designs to offer the use of this invention to the Departments of Washington, and it they are

BROWN'S CIRCULAR SAW FILING MACHINE.---Figure 1.


This machine is the invention of Mr. Israel . Brown of Columbus, Georgia. No small de ree of interest has been manifested to know something about this machine, as accounts have found their way far and near, relative to especially designed for the saws of the cotton gin, and the following description will convey plainly a knowledge of its principle and operation. Fig. 1, is a side elevation, and Fig. 2 an end elevation. The same letters refer to FI.G 2.

he like parts on both the Gigures. The prin ciple of the invention is to sharpen the saw by a file moved by a reciprocating horizontal motion operating alternately upon each tooth of the circular saw, which is moved round ou a vertical spindle under the file.
or table. A is a power wheel to drive the machine. $B$
found serviceable there, to place them in the any one may understand when the fire do or various Record offices, and wherever copies are open-when fresh fuel is added-when of documents are wanted to be made with ac- the pump is keeping up a supply of water, curacy and planness. They are played on, a it we, e, striking keys answering to the letters of the alpitaber, and the response is the in Etantianevus inpression on the sheet.
[We do nut believe that any printing mahine operated by keys can transcribe as fast as a goud penman It may print plainer than a pen, but it appears to us, that the pen ca be made to travel over a whole word whil the hand is chansurg from one key to another There nay fowever, be something about the above press which removes all objections. and every cut off of the steam made by each evolution of the engine All this is shown upon a plate, like the plate of the thermome er, graduated and marked by degrees and fig res, and reduced to a scale which shows th exact weight of steam carried-and the pre cise condition of the water in the boiler. The index mercury rises as the pressure of the steam increases, and the index mercury for the water rises as soon as the water falls too low in the boiler. In either case, the effect is the same on one or the other of the indexes.

If either go to a point beyond that of safety or to a point which is usually esteemed unsafe by men conversant with the subject, the guage so constructed that as it reaches that point whether from the high pressure of steam or the low state of the water in the boiler, it throws a connected piece of machinery into operation and gives instantaneous alarm to all in the vicinity. It has been partially introduced upon several boats with the most decided success.
[Is not this the common mercury guage with its qualities a little exagerated. Wherein conists the difference?
The qualities ascribed to it are certainly great. It is just the the thing wanted to pre vent explosions, which have been very frequent lately. On the 26th ult. at Allegany, opposite Pittsburg, a boiler bursted by which a number of lives were lost and 5 building destroyed. The cause of steam boiler explodestroyed. The cause of steam boiler explo
sions does not appear to be a problem, but the preventing of explosions seems to be. If Mr Lyman's guage can perform all that it is re presented to do, the problem of prevention is at once solved.

Diseovery to Restore Decaying Ivory. Mr. Layard, in his recent explorations a mong the ruins of famous old Nineveh, discovered many ornaments of glass, which shows that the ancients, far anterior to our knowledge of its discovery, were acquainted with the process of making it. Among many won derful discoveries made in the ruins, Mr. Lay. ard exhumed some splendid works of art, carved in ivory. When the ivory arrived in England, it was discovered that it would crum. ble to pieces and fall into dust. Prof. Owen ble to pieces and fall into dust. Prof. Owen
attributed the cause of decay to the departure attributed the cause of decay to the departure
of the albumen from the ivory and recommenof the albumen from the ivory and recommen-
ded the articles to be boiled in an albumen ded the articles to be boiled in an albumen
solution. The experiment was tried with the solution. The experiment was tried with the most happy results. The old ivory has been thereby rendered as firm and solid as wheni work of ancient Assyrian cithese splendid wor vilization will astonis

Animal Electrielty.
The London Sun says that Mr. Alfred Smee, the surgeon to the Bank of England, and in. ventor of the battery which bears his name, has announced important discoveries in animal electricity
By a test which he terms electro voltaic, he has discovered that the termination of the sensor nerves are positive poles of a voltaic circuit, whilst the muscular substance is the negative pole. The sensor nerves are the telegraphs which carry the sensation to the brain and the motor nerves carry back the volition to the muscles. The brain he infers to consist of five distinct voltaic circles, which upon theoretical grounds; he believes to be sufficitheoretical grounds; he betieves to be sumcient to account for all mental phenomena. Mr.
Smee has succeeded in making artificial electric fish, and artificial muscular substance.Should these researches be fully confirmed by other investigators, they must be regarded s the most important physiological discovery f modern tımes.
The above must be received with some caution. The idea that the brain is an electric battery, is not new however.

## Tusneling a River.

The citizens of Chicago are agitating the project of tunnelling the river at that place. The bridges have been so often carried away, that they think a tunnel will be cheaper in the end than to re-construct the bridges carred away by the late flood, without making provision for their future permanencs.

