

NEW AND VALdAbLe inventions.
We coly the bllowing new inventions from the New lorth Mechenic, one of the best papers published in Ameriea. A sperimen of the inventions may be seen at the General Patent Agency Olliee in New York, the rights of whieh, in whole or part, can be had ut that office.

Ornanental Cohon Panting Machine. -'This machine is calculated for printing paper-hangings, and picture ornaments in a great variety of colors amd the most elegrant dereigne, by a single simple process and upr eration. It is expected to color and print the ground and figure, working from twelw to twenty-four different colors, on a strip or soll of room paper of ordinary length in one sminute. The probability is, that when this - machine comes into full operation, such pitper hanging as usinally command one dollar to one dollar and fify cents per strip, may be alforded from 25 to 37 cents. Any varicfy of designs and figures may be produced by one machine.
Doon Lock.-This article, which is usially termed the independent door lock, is believed to possess an umusual degrec of excellence, utility and sality, as it certainly does of novelty and simplicity. It is smath, compact and plain, though sotnewhat ornazuental; and without requiring the aid of a key, is evidently more convenient to manage, und at the same time more perfectly sate than any other lock in use, being capable of more than six millions of diflerent pusituons, only one of which will unlock it; yet any jerson who understands its peculiar arrangment can unlock it with the utmost liesility by day or might. They appear likely to come into inmediate and extensive use. and as fir tas elergance, satety and convenience are consuled, supersede all others.
Horzontal Wiad Wineel.-Latest improvement with bexel-geer. In this artucle the subject is brought to a derree of perieruon which has no parallel. Fr really adjusts gtedf to the direction of the wind, regulates its own velocity, is secure from damage by grales is put in motion and stopped with cast and ficilfty, and produces more power 11 proportion to the quantity of sail employed than any other kind, and will operate machinery with a uniformity of motion nearly approaching to that of watur power.
Dovile Cam and Ratchet Paese.-It has long been a desideratum with mechanis to find some method of applying animmense power with a continuous and uniform mouon, whout the expense and inconvenicuce of a muluphacity of geer. or the excessive friction of the serew. This is now atcomplished by an arrangment of a double cam and ratchet in a manner conveniently applicable to the pressing of cotton, cloth, or japer, hay or ground apples, or in the raising of buildings. or other pondrous articles. This press is simple in construction, its notion is uniform, and its power is only limited by the strengu of the materials of which it is made: with the ordinary proportions, however, tt will glve a pressure of a ton for every pound that is appled to the crimk; thus
the power of one man will produce a pressure of athundred tons or more. It has also the importunt advankages of having the follower move up or down occasonally without the process of working the machinery by roluch the pressure is produced.

Rahinay Waten Wheen.-'lhere are many sithations in disis country where available mill-streams are scarce, but where there are plenty of small streams descending from the mountains anil hills. These maty be madeavailableformilline purposes by menus of the Railway Water Wheel, without the ceppense of building a dam, or an elevated plame or pentstock. 'l'his water-wheel or hydraulic engine operates on an inclined plane parallel to the surthee of the carth, and may be extended to a great length, thes accumblating an inmense power froma yery sumall stream. In this way a saw-mill or flour-mill may be operated hy a stream that would pass through a two-inch aperture, and that wouk ordinarily be overlooked as entirely unavailable.
Thi Moniswtem Repainen.-Thes machine is to be attached to one of the cars on a railroad train, and will occasionally stop the sath train. yet retainner all the power which would otherwae be lost by the frietion of the brakes, and holdung the said power in readiness to be applied to give the train a forward motion when required; thus saving tine, power, and the labor of those who would otherwise be employed in managing the brakes. The adrantages that may be derived from a machine of this kind, will be at least two dollars per day in the saving of labor, fucl and tume. bestles contributing much to the safety and comfort of the passengers. An operating model has been exlubited to the ofticers of several Railroad Compames, and has not their decided approbation.
Arbithaby Blowing Wurel.-It is gencrally known that many of the proprictors of forges, furnaces and of coal-burmng steam engines have adopted a fan-wheel or blower in preference to bellows, for the purpose of prodacing the requste blast of air. These tan-wheels produce a blast by means of the inerua and centrifugal force of atmospheric air, which is received near the axle of the wheel: and for thas purpose they require an extensive surfice and a volent monon. The recently invented Arbitrary Blowing-wheel on the contrary requircs but a moderate motion, and not more than one-fourth of the ordinary size of the fait-whecl to produce an equal effict. One of these machines of a proper size for blowines a smath's forge ocenpies a space or only six inches square; and the inventor will guarantee that less than
one-fourth part of the power required to one-fourth part of the power required to drise an ordinary fan-wheel blower will produce an cqual blast widh the arbitrary blowing wheel.

T'ue Sexsitive Fina Alamm.-This is an clegant and very promising mention-a picturc with frame and glase-yct so constructed as to ruig a loud alarm bell whenever the air in the room becomes wamer than its ordinitry temperature. It appcars evident that if generally adopted they will prevent more than half of tic ordmary damage by fires. Kecpers of public and boarding houses will find it for thear mecrest to patronize them, as boarders will grve the prefierence to louses where the art cle has been adopted. They are sumple in e.jnstruction, elegant in appearance, and it is satisfactorily ascertaned that they will command an extensive sale at more han donble the cost of manulacturing.
Cyhnmic Water Wuech-Is so constructed as to be operated by the weight or pressure of the water, without regard to its momentum, and will operate at least 90 per cent of the whole power of the water, which is more than threc tunes as much as is usually obtained by either an under-shot or a reactury wheel. This wheel is compart, cheap and portable, and may readily be flowed to prevent freczing or being encumbered with ice an the winter; or may be made to run under water altogether. The floats project and recede alternately in such a manner that the water cumot esciape but by the motion
of the wheel. The ordhary cost of buildhur them will not exceed filty dollans each.
Rheolvino Mlmanac.-This beautifularticle combines morb elegrance and utility than any thing of the kind ever ofliered to the American public. It is a calculation for 8000 years, conmencing with the Christian era, and extending more than 0000 years into futurity. It slows the day of the month or day of the week more readily thun any other calendar, is conveinient for counting time from date to date, and shows the rising and setting of the sum lor the lst, 10d and 20th of each month; besides being suficiently elegant to ensure its adoption as a parlor ornament as well as a counting house manuel.
The Distance Reponter,-A small ornamental machine, to be attached to the axle tree of a carriage, midway between the wheels thereof, wih which it communeates by wires. This machine is enclosed in a sruall brass bos having a glass top, under which are three dials with indsees. These indices will show the distance travelled by the carriage to which it is attached, from one rod up to two hundred miles. The cost of the macline complete is less thain five dollars.
Priangutar Suelino Machine.-This is a light and portable machine, its entire weight beine but 15ibs, et it is very perfect in its operation, will shell 60 bushels of corn per day, leaving the corn whole and free from elaff, and depositing the cobs in a separate place. These machines are in demand at more than double the cost, and whenever they are introduced the ordinarily irhsome drudgery of shelling corn is rendered an agrecable amusement.
Self Adjusting Cherse Paess.-In this press no weight is required but that of the cheese itself; yet the pressure is continually increased, extending from four to near forty times the weight of the clicese during the process. The press is simple, cheap, compart and convenient to manage, and requires only to be seen to be approved.
Wind Power Fouwrain.-This is an apparatus for supplying cattle with water in dry pastures, and where no elevated fountain head can be obtained. $\Lambda$ capacious hat not expensive rescrioir is hept constantly supplied with water from a well, by an econonical wind wheel and forcing pump, yet the water is never permitted to overflow and waste, heidher to become stagnant; but a current is passed through the reservoir and returned to the well, whenever there is even a light breeze of wind. A watering trought is connected with the reservoir, from which it is supplicd with water in euch a manner that, athough its capacity may be no more than two gallons, it never becomes empty nor cver overflows. Those who are accustomed to draw water from deep wells by hamd for supplying a stock of cante will readily appreciate this invention. On this principle a small reservoir placed in any part of a dwelling house may be generally supplied by a current of fresli cold water from the bottom of any well in the vicinity, and that without any waste of witer.

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