### Woodworth's Patent.

patent, and making part of the same, contain- rotating planes with the cutter wheels for ing a description in these words of the said tonguing and grooving, for the purpose of gazette. The degradation of mandarins is here William Woodworth himself, of his improve- tonguing and grooving boards, &., at one opment in the method of planing, tonguing, eration as described. And also the combinagrooving and cutting into mouldings, of ei- tion of the tonguing and grooving cutter ther, plank, boards, or any other material, wheels for tonguing and grooving boards at and for reducing the same to an equal width one operation as described. And finally the ing the late war, of the thousand upon thouand thickness; and also for facing and dres- combination of either the tonguing or the sing bricks and cutting mouldings on, or fac. grooving cutter wheel for tonguing or grooving metallic, mineral and other substances.

The plank, boards, or other material being reduced to a width by circular saws, or friction wheels, as the case may be, is then placed on a carriage, resting on a platform with a rotary cutting wheel in the centre, either horizontal or vertical. The heads or circular plates fixed to an axis, may have one of not appear capable of much improvement, the heads moveable, to accomodate any length | since the Chinese language consists of between of knife required. The knife fitted to the heads with screws or bolts ; or the knives or representing a distinct word. It seems alcutters for moulding fitted by screws or bolts most impracticable to use moveable type, and to logs, connecting the heads of the cylinder, therefore they adopt the plan of cutting in and forming with the knives or cutters a cy- relief all the characters of the work to be linder. The knives may be placed in a line printed, on slabs of very hard wood. The prinwith the axis of the cylinder, or diagonally. - ter daubs these over with a preparation of In-The plank or other material resting on the dian-ink, and the paper, being pressed upon the hope that the storm might abate. The carriage, may be set so as to reduce it to any them, receives the impression. One coating thickness required; and the carriage moving of printing fluid is sufficient for two or three by a rack and pinion, or rollers, or any later- impressions, but the paper being of too porous al motion to the edge of the knives or cutters a nature to receive impression on both sides on the periphery of the cylinder or wheel, it becomes necessary to fold the paper. These reduces it to any given thickness. After pas- doubled sheets are then stitched together, the ting the planing and reducing wheel, it then fold is at the outer edge, with two coarser approaches if required, two revolving cutter sheets of paper to form a cover. But the wheels, one for cutting the groove, and the wealthier classes are as particular as we are, other for cutting the rabbits that form the in their bindings, which are of beautifully tongue : one wheel is placed directly over the figured silks and satins, sometimes of gold or other, and the lateral motion moving the silver tinsels. The Chinese being a readplank or other material between the grooving ing nation, never destroy the slabs on which | powerful laborers and members of the comand rabbiting wheels, so that one edge has a the characters are cut, which are laid by with mittee, employed under the control of Mr. C. groove cut the whole length, and the other great care, and the place of their deposit is edge a rabbit cut on each side, leaving a referred to in the preface of the work. tongue to match the groove. . The grooving wheel is a circular plate, fixed on an axis with a number of cutters attached to it, pro- able to witness the depravity of taste so pub-

when put in motion, will perform deep cut or of an enormous number of obscene publicagroove parallel with the face of the plank or other material. The rabbiting wheel, also of gerly sought after. The taste for reading may similar form, having a number of cutters on be very cheaply gratified in China, by means each side of the plate, projecting like those on the grooving wheel, cuts the rabbit on each carried about by their proprietors, in boxes side of the edge of the plank, and leaves the slung over their shoulders. In no part of the tongue a match for the groove. By placing world is education so universalas it is in the planing wheel, axis, and cutter knives vertical, the same wheel will planetwo planks or other matetial in the same time of one, by port to the highest offices in the state .moving the plank or other material opposite ways, and parallel with each other against the periphery of the planing or moulding state preferment, who go their circuits twice wheel. The groove and tongue may be cut in each year. Each candidate must submit in the plank or other material at the same to repeated examinations previous to the distime, by adding a grooving and rabbiting tinction of being placed upon the books for wheel.

Said William Woodworth does not claim the invention of the circular saws, or cutter wheels, knowing they have long been in use, but he claims as his invention, the improve ment and application of cutter or planing wheels to planing boards, plank, timber, or other material; also his improved method of cutters for grooving and tonguing, and cutting moulding on wood, stone, iron, metal, erais honor conters the rank of a mandarin or other material, and also for facing and dressing brick; as all the wheels may be used separately and singly for moulding, or any other purposes before indicated. He also claims as his improved method the application of circular saws for reducing floor plank and other materials to a width. Dated Troy, Dec. 4th, WILLIAM WOODWORTH. 1828

itnesses : Henry Everts : L. S. Gleason. Schedule attached to my patent.

WILLIAM WOODWORTH.

## Improved Claim.

issues of Woodworth's patent; and revised ed the various titles and descriptions of the ingly with the bold and indomitable qualities "A. B. of Mich."-Both your letters have lieve.

CLAIM — The employment of rotating planes substantially such as herein described, incombination with rollers or any analagous device

"The schedule referred to in these letters described. And also the combination of the day which is selected by the emperor for all about his musical character was the power ing boards, &c. with the pressure rollers as described

# Printing and Literature in China.

The Chinese lay claim to the invention nathre of the language however, this art does

Books are sold at so cheap a rate that they are within the reach of all. But it is deplorject beyond the periphery of the plate, so that licly exhibited in China, by the circulation Hons and indecent engravings which are ... ea. of itinerant circulating libraries, which are China. In such estimation is literature held that literary attainments form the only pass-Each province is furnished with officers appointed to examine claimants or aspirants to preferment. When a man has reached the highest class of literary attainments he is examined by the Emperor in person, and if approved of by him he attains the highest honors. It would appear that genius or originality is not so much admired in China as memory. The power of reciting the greatest number of the sayings of their ancient sages is considered the acme of learning. Every liton its possessor ; and each grade is distinguished by its peculiar dress. Although honors are not bereditary (even the emperor selects whom he pleases as his successor from the royal blood,) yet the descendants of men of learning are treated with the greatest respect. In proof of this the descendants of Confucius, who died more than two thousand years ago are treated with the greatest consideration minds of men, but perhaps over no man did it machine for from \$10 to \$35 of any manufac-103-I certify the above is a true copy of the by all classes from the emperor to the low- exert such a singular influence as over Martin turer of Cotton Machinery. est coolee. So highly is learning prized, Luther. One striking peculiarity of his cha- "G. M. G. of Mass."-We could not dispose This improved claim is the basis of all the book of merit to be kept, in which are record- him it had a singular effect-contrasting strik- drawing. are deserving of praise. Should however a harmony, and by no means unproficient on subject to your disposal. mandarin be degraded (which frequently oc. several instruments. He had also a beautiful

public executions is notified by means of this announced : and the events of war are bomofficial reports contained in this gazette, dursands of the English who were daily slain and driven before their conquerors, were truly astounding.

### Loss of the Victoria Balloon.

Mr Green, the veteran English æronaut, has had the misfortune to lose his celebrated might have been excited or troubled throughof printing, at an early period. From the Victoria Balloon, by means of which he has made many voyages, sometimes accompanied by a number of his friends. He had given notice of his intention to make his 409th as-70 and 80 thousand characters, each character cension at Halstead on Oct. 27th, but a violent storm of wind and rain compelled him to postpone the excursion to the following day. On that day the weather had undergone no improvement. A great concourse of visiters, however, having assembled, the process of inflating the balloon was suffered to go on, in sequel is thus described by the London Times:

> The committee had made the best possible arrangements; all parties concerned were in harmony, and anxiousto give satisfaction-but the elements forbade the fulfilment of their desires. The storm increased, the wind kept up its attacks on the restrained ærial monster as though determined to sweep it away. Moored to the earth by five strong ropes and stakes, ballasted by about one ton and a half of iron weights attached with ropes to ring or hoop, surrounded by about 30 or 40 Green and his brother, in governing the furious rolling and violent lifts and plunges of the grand prisoner; it seemed for a long time the efforts and resolute energy of humanity might be allowed a victory over the fury of the blast. But alas! about a quarter to 12. o'clock, when the hurricane was at its height the immense inflated creature was raised by a sugaren jerk a few feet from the earth. Again and again it lifted and rolled and dashed itself to the ground ; and on the part of the brave fellows who stuck to the ropes and netting there was an indomitable preseverance scarcely conceivable. The danger of being dashed among the dangling weights, or violent hurled tothe ground, was most imminent but all held on manfully until, at 12 o'clock, one of the long strained ropes was snapped by the throes of the immense machine. At once, the hoop with the iron weights and 20 human beings were lifted up six or eight feet from the ground. The hocp broke in halves, dropping men and iron weights in a confused heap beneath ; and doubling its height, the balloon rose to 16 or 18 feet, with the stakes by which it had been confined wrenched from the ground, and two or three men still hanging on the hoop. The netting however being no longer equally retained by the broken hoop, and the balloon rolling entirely over on its side in the air (owing to the detention of one remaining rope,) the netting suddenly ripped up on the side of the balloon then uppermost, and the silk enclosure, shelling itself out of the ripped envelope, burst from end to end. The men and weights and netting fell mingled in confusion-away flew the immense mass of silk, rent in every direction, and the grand balloon was no more !

#### The Power of Music.

Music exerts a singular influence over the the planes when cutting upwards, or from the Pekin, which contain imperial grants of land profoundly-and he composed several pieces pondence.

reduced or plained to the unplained surface as remission of taxes, public acts, &c. &c. The of great merit. But the most striking thing which melody had over himself. He seemed melted and subdued into a state of almost helplessness by its tones. Amid their influence, bastically set forth, which invariably repre- all other faculties of body and mind appeared sent the deeds of the nation as successful. The suspended :- he was in a state of ecstatic rapture. In letters which he wrote to Liuccius, (Frankfort edition 1647,) we find him jesting about his extreme susceptibility-which he considers as a weakness in his character. He tells Liuccius seriously that it was his custom to sing a hymn every night before he retired to bed; and, such was the soothing power of the melody on him, that however much he out the day, from the moment when the key fell upon his ear, he forgotall earthly matters and vexations.

#### TO CORRESPONDENTS.

"F. R. B. of Ill."-The engine we have would answer your purpose fully and you would be pleased with it. We could not dispose of the engine apart from the boiler. You probably saw the engraving and description of them which we published in No. 9 of this vol. Scientific American. Much obliged for the names you sent; hope to receive maore from you. \$2, all right.

"H. J. B. C. of N. C."-J. Grant, Providence, R. I., we believe is the name of the gentleman to whom you refer. Further we have no recollection or way of ascertaining. "G. W. of N. Y."-The expense of print-

ing your table would be \$25. We do not think it would pay.

"J. & P."-We have not yet got the claim you desired but whenever it is received yon shall have it.

"H.C. of \_\_\_\_."-We doubt whether the application of a syphon formed pipe to the upper end of a pump would accomplish the object at which you aim. You can easily try.

A. S. of Ky."-Please accept our thanks for the very fine list of subscribers you have sent: we hope to keep them on our list always, together with others which you may hereafter send. We are glad to know that you are so well satisfied with the engine lathe we sent you, we presume you will not need any hint from us to tell your friends that whenever they wish machinery to send to the Scientific American office. A 4 horse engine and boiler, new and complete will cost you \$450, 6 horse ditto \$600. We can send you one of either size whenever you wish. Good second hand engines can be had for nearly one third less. Mr. S. has paid for your third volume. \$8 all right.

"W. W. H. of Pa."—We received your letter and pamphlet with much pleasure. The first and second vols. of the Scientific American cannot be obtained. We saw sometime ago one of your muskets with which we were highly pleased. Would you not like to publish engravings of some of your inventions in our paper? It would give you much creditable notoriety, and aid you in disposing of your Patents if you so desire. The expense would be trifling.

"F. of N. Y."-In last week's paper you probably saw an account of Remington's bridge which gave an outline of his mode of construction. The paddle wheel you refer to is not yet Patented, though measures are in progress. The paddles come from the water perpendicularly owing to the superior gravity of the metalic part ; but they do not preserve their perpendicularity in the water unless the pressure upon both surfaces is the same. On entering the water they seek such an angle as makes the pressure on both surfaces equal.

"J. A. P. of Ala "-You can obtain such a

that very frequently, deceased ancestors are racter was his singular and enthusiastic love of one volume of the work as both must be ennobled in compliment to the attainments of music. Not that there is abstractly any taken together. Price \$26. We have never of their descendants. The emperor causes a thing remarkable in such a passion; but in seen a sieve exactly like yours. Send on your

from the original, by Mr. C. M. Keller we be- mandarins, and those of their actions which of his nature. He had an admirable ear for been received and the money remains with us

"C. L. of Ct."-There is little prospect of curs) the reason of his punishment is stated voice, which be constantly kept in order by doing any thing this winter with our windwith equal accuracy. Gazettes, by the em. the chanting of hymns and several songs. lass. Relative to the other invention see anto prevent the boards from being drawn up by peror's command, are commonly published at The principles of church music he studied swer to "I. A. of Pa." under Patent Corres-