## NETW INVENTCOMS.

New Machide for Paring Apples, \&c.
We have recently seen a machine for paring apples, \&ce., invented by Wm. Lazelle, of which Messrs. Smith and Fenwick, 14 Vandam street, this city, are the assignees, which is peculiar in its construction and superior in its operation. The knite is stationary, and the fork which holds the apple to it revolves, and has two motions, the one rotary and the other in a transverse horizontal arc from the heel to the point of the apple; the fork which holds the apple is mounted on a spindle which receives motion by a pinion working on a statoonary rack, which is part of a circle. The machine is operated by simply pushing the handle backwards and forwards, making the wheel to traverse over the stationary rack, and thus move the spindle on which is the apple fork.

Copper Buoys for Steamboats
G. W. Hildreth and S. L. Chase, of Lockport, N. Y., suggests to us the propriety and utility of furnishing puoys made of sheet copper for steamboats and other sailing vessels. They can be made of a shape to be placed under seats, under berths, between timbers, and stationary seats can be made of them. Enough of them can be secured in different parts of a boat to float it, if it should spring a leak, and they would not be burned if the boat caught fire. In this respect they have a decided superiority over cork, or india rubber inflated buoys.

Improved Scythe Fastening.
Messrs James Broadhead, William Broadhead, and A. B. Cobb, of Jamestown, Chataque Co., N. Y., have taken measures to secure a patent for a new improvement in scythe fastenings. By means of a metal loop and a screw the scythe is secured and fastened to the snath in a far superior and convenient manner to that of wedges, and at the same time the screw sets the scythe to give it the peculiar hang suitable to every mower, by raising the heel or sett ing the scythe, as may be desired. By turning the screw in one direction the scythe is fastened, and by turning it in the contrary direction it is loosened, this is quickly done, and certainly it is a simple mode of doing $i t$.

## Improved Lock.

Messrs.' Thomas Murphy, and W. H. Butler, of New York City, have invented an excellent improvement in locks for safes, bank vaults, \&c. The improvements consist of a peculiar manner of operating the tumblers of the lock by means of racks, and placing the tumblers and racks within suitable cases, the tumbler case being movable, thus allowing the tumblers to be thrown out of gear with racks. By this arrangement the key may be changed or altered in form every time the door of the safe or vault is locked, thus rendering the lock less liable to be opened by burglars. There is also a guard or stop so arranged as to prevent a pressure being obtained upon the bolt of the tumblers, thus securing the great means of preventing the lock being picked. Measures have been taken to se cure a patent.

## Improvement in Buckles

Peter P. R. Hayden, of this city (New York) has invented a new and useful improvement in buckles, the nature of which consists in a peculiar manner of uniting the two ends of the body of the buckle by means of a boss at each of the ends, which form a bulb, around which one end of the tongue is clasped. The end of the tongue which surrounds the bulb has a grove in it to prevent it from slipping off. By this arrangement the two ends of the body of the buckle are firmly secured to the tongue, and it is always kept in its proper place. Measures have been taken to secure a patent.

## New Cut-0ff.

Wm. Camerer, of Reading, Pa., bas invented an improvement in valve cut-off gear for locomotives and other engines, for which he has taken measures to secure a patent. The cut-off is that which slides on the back of the slide valve, and the improvement consists in
end of which is connected with the valve eccentric and the other end with another eccentric, set in a different position on the crank axle, the means of connection between the cut-off and link being a stud secured to the cut-off rod, and furnished with a box fitting to the slot in the link. By moving the link so as to bring either end nearer the stud, the relative movements of the valve and cut-off are altered, and the time or point of the stroke of the piston at which the cut-off is effected, may be varied at the pleasure of engineer.


#### Abstract

A New Composition We see it going the rounds of rs, the daily pa, Watson, of the British Navy, w when a mixture of india rubber and sels. By its elasticity it collapses when trated by a ball, it deadens concussion, and by its buoyancy will keep a vessel afloat, though it be riddled with shot; it also prevents splinters. This composition, although set forth by those papers as something new, is some years |  |  |
| :--- | :--- | :--- |
| old, and was proposed two years ago to line | delay. |
| iros steamers with. |  |


The accompanying engraving is a frontlatch, this cord passes along on the upper sur- person in a vehicle approaching the gateelevation of an improved Balance Gate, in- |face of said rail, and passes under a small pulvented by William C. Van Hoesen, of Leeds, ley, $k$, and is there attached to the small side Green Co., N. Y.; a patent was granted for it on the 14th of last April.
A is the gate, having its two side pieces, $a$ hung by pivots, to the posts, $c$. The side piece, $a$, extends upwards some distance, and has a weight or counterpoise, B, which balances the gate upon the pivots. $C$ is a half pulley attached to the side piece, where the pivot passes through. Two ropes, $d$,
pass around this half pulley and are attached to the small side rod, $e$ the oth the two ropes pass around pulleys, $f f$, which are placed in horizontal arms,, D, said arms being secured in upright posts, E ; there is a arm and post on each side of the gate. The small side rod, $e$, is attached at its lower end to the latch, $g$, which is pressed into the catch, $l$, by the spring, $h$. At the opposite
and of the gate there is a similar latch, $g$, and end of the gate there is a similar latch, $g$, and to it, and passing over a pulley, $j$ in the upper cross rail of the gate, directly over the

Improved Coal Sifter for Families
Ebenezer Oliver, of New York City, has taken measures to secure a patent for an improvement in apparatus for sifting ashes from cinders, which is very convenient and suitable for private families. An outer box is employd, having a sieve or screen, sustained in the box on a bar, and the sieve is moved back wards and forwards in a very simple manner on slats, by the turninglof a crank handle; the mode of operating it is exceedingly simple.

Turning Irregular Forms.
On our list of Patents, this week, there is ne granted to Charles $\mathbf{E}$. Bacon, of Buffalo N. Y., for cutting irregular forms and carving surfaces. We have been informed that this is a most excellent invention, and the machine is one of the best ever got up for the purpose; it is stated that it will do work never done by
any machine before. In a few weeks, our

Plow and Cultivator Combined
We have received from some source a small model of a Plow and Cultivator combined. If we mistake not, it is the second one of the kind sent us; now, as there is neither name on the model nor letter accompanying it, we are of course unable to correspond with the inventor. We earnestly solicit persons who send models to this office, that they attach cards to them, bearing the inventor's name and residence, thiswill save considerable trouble and

representation of the manner being shown in the engraving-by pulling down the rope the latches are released from the catches, $l$, and the gate being balanced on the pivots by the gate being balanced on the pivots by
the counterpoise, $B$, the half pulley, $C$, will the counterpoise, B , the half pulley, C , wil
turn, and the gate will be elevated. When turn, and the gate will be elevated. When
the gate reaches a horizontal position, it is the gate reaches a horizontal position, it is retained there by means ot a latch, being torced into the catch, $m$, by the spring, $h$. The vehicle or equestrian passes through, and then pulls on the cord on the other side of the gate, which releases the latch from the catch, $m$, when the half pulley turns and the gate descends, and swings into its original vertical position. The gate is operated alike by persons passing in both directions. It is a very sons passing in both directions. It is a very
convenient gate certainly; this will be at once acknowledged, and it can be made strong and very durable. The gate, as represented, is nearly swung up to its horizontal position, to let the female equestrian pass through.
More information may be obtained by letter addressed to B. E. \& Ira Buckman, No. 94 Fulton st., this city.
upon, and which is still between the dies, is immersed in a vessel of water at the lower part of the frame.

## The 5cotch Reaping Machine.

A writer in the London Times states that the Rev. P. Bell, about whose reaping machine we made a few remarks last week, made one for P. B. Yates, Madison Co., N. Y., America in 1834. If this is so, Mr Yates will be pleased to inform his countrymen here, so that we may know whether the horse power reaper was first produced at home or came over the Big Herring Pond. Mr. Yates, report yourself.

Descent from a Balloon
Madame Poitevin, a French lady, recently descended from a balloon, near Lundon, by a parachute. This was one of the most daring feats ever performed.

