## Science mo Ant.

## A Moon of the Moon

We have received a letter from E. B. Ken rick, of Cambridgeport, Mass., in which he states he has discovered, by "unentranced clairvoyance," a lunagen-composed wholly of gas-revolving round the moon. He announces this discovery now, because there is to be a lunar eclipse on the 25th of this month, during some part of which he supposes a bright spot of solar light may bereflected through the center of the lunagen's disk, and discoverable by a telescope, thus affording evidence of the $l u$ nagen being located about two degrees from the moon's disk. This lunagen is a mass of gas, having a diameter three-fifths that of the moon, and a period of revolution amounting to thirty-one hours.
Itis our opinion that Mr. Kenrick must have mistaken some fitting cloud in the upper regions for a gaseous attendant of our venerable globe's satellite. The astronomers of the press ent day are great on gas; the most of them can see far back into the time when the whole universe was nothing but gas; and some of them can see a ring of gas round the earth. We must, however, give the palm to Mr Kenrick for subtle examinations of the beavens, he having becn able to discover such a minute gas bag in a part where no such thing was expected. This lunagen, however, may be composed of gas projected from some recent eruption of Tycho-the great burning mountain of the moon-and as we have no telegraph to these regions, no surprise should be felt at the general ignorance prevailing on the subject.

## Apples an Food.

This fruit is exceedingly abundant this year and, as a consequence, the price of it is reas onable. The working people in our cities do not, as a general thing, regard apples as food, but merely as a luxury; this is especially the case with our foreign population. But apples are not estimated according to their real value as an article of food; they hold a low rank in the estimation of most persons in comparison with potatoes, so far as it rclates to their nutritive qualities, whereas the best qualities of apples are perhaps superior. In Cornwall, England, the peasantry consider ripe mellow apples superior to potatoes as food, and nearly equal to wheaten bread. In many parts of Europe the laboring people eat sliced apples with the daily bread, and make a hearty healthy mea of them. The finest apples in the world are raised in the United States, and the working people in our cities would do well to use mor of them for food, especially during the fall and winter seasons, when they can bo obtaine cheap. We hope yet to be able to eat apples during the midst of summer (at fai and reasonable prices,) as sweet in flavor and rich in nutriment as when plucked from the tree Much attention is now directed to their perfec preservation during summer's heat and win ter's cold.
endering Teeth Insenollule to Pain
The Dublin Hospital Gazette states that di eascd teeth have been rendered insensible to pain by a cement composed of Canada balsam and slacked lime, which is to be inserted in the bollow of a tooth, like a pill. It is stated that such pills afford immediate relief in all toothaches but chronic cases of inflammation This remedy for toothache is simple, safe and can easily be tried by any person.

## A Polar Conl Rertion

E. Meriam, the Brooklyn meteorologist states that the Arctic Zone is not a barren waste. It will in time be found one of the richest mineral districts of the globe. Coal is abundant there as far north as beyond latitud 75 degs.

Gold in the Cilnea.
It is asserted by a Dr. F. Maynard, of Paris that there is an abundance of gold in the Crimea, and that in ten years it will become the "El Dorado" of the "Old World."
E. Meriam states that a number of earthquakes must bave taken place at various points on the earth's surface this season.

## GODDARD'S PATENT BRIDLE REIN.

ing figure illustrates the im provement in bridle reins for the better man agement of horses, for which a patent was granted to Kingston Goddard, of Philadelphia, Pa., on the 24th of July last. The figure rep resents the curb bridle applied to a snaffle brio dle-compound snaffle and curb bit. The curb and snaffle bits have long since been combined with a separate and independent bridle for each, but this involves a mass of reins in the hand, which is very troublesome to the rider or driver, producing confusion when horse takes a sudden start.

lower end of the lever is another ring, $d$, to $\mid$ mal. The tubular part of the snaffle rein is which is secured the curb rein, $e$. The oppo made sufficiently large to allow the curb rein, site side of the bridle and reins is the same as the nigh side. The snafle rein, $c$ is made tubular from about nine inches from the bit, as shown at $g$, in the detached open rein, C. The rein, $c$, receives the curb rein at the junction, $e$ as shown, and it (the curb rein,) comes out again at $h$, in the detached rein, near the place where the snaffle rein is grasped by the hand. The curb rein forms a loop, $i$, near the hand o the driver or rider, and it is thus ready to be addressed to Mr W. B. Goddard, at Knorr grasped in case of danger, to rein up the ani- \& Nece's, Sadlery Warehouse, Philadelphia.

MORGAN'S PATENT WINDMILL.


The accompanying engravings represent an A represents a vertical ghaft. The lower mprovement in Windmills for which a patent end of it runs in a suitable step, $a$, and its upwas granted to J. S. Morgan, of Highland, per end is fitted in a suitable bearing, $b$, at Madison Co., Ill., on the 17th of Julylast. Fig. tached to proper frame-work. To the top of 1 is a side elevation of the windmill, and fig. 2 the shaft there is attached a hub or boss, $c$, to is a top view of it. Similar letters refer to like which horizontal radial arms, $d$, are connected, parts.
The nature of the invention consists in hat ing the sails or wings attached to the ends of horizontal radial arms or wings, and arranged pairs, one above and one below the end of ach arm, the sails or wings being connected by pinions, so that they will rise and fall simultaneously. The sails or wings have cords attached to them, to which weights are conected and arranged so that a greater or less rea of the wings or sai) 8 will be presented to the action of the wind accor ing to its veloc-
ity, and the mill will be made to receive uniform motion therefrom, however variable it may be.

## The object of this invention is to employ the

 combined snaffle and curb bits, and avoid the inconvenience and danger arising from the use of twoseparatereins. Thenature of it consists in making the snaffle rein or bridle, tubular for a small portion of its length, on each side, and passing the curb rein through such tube, then out near the band of the driver, forming a loop o be grasped by the hand in cases of danger control the curb bit.$a$ is one of the levers of the curb bit, of the usual construction. $b$ is a ring, to which is secured one end of the snaffle rein, $c$ At the
c. To each wing or sail there is attached a cord or chain, $i$, at about the center of their edges, as shown in fig. 1. These cords or chains are connected to cords or chains, $j$, which pass through pulleys, $k$, attached to the rim, B. and through pulleys, $l$, in the hub or boss, $c$, The lower ends of the cords or chains, $j$, have weights, $m$, attached to them, as shown in fig 1. In consequence of each pair of shafts, $f f$, being connected by pinions, $g g$, one shaft will move simultaneously with the other, and also the sails or wings, $h \quad h$, but in opposite direcions, that is, towards or from each other.
When the mill is in operation, the wind will open or expand the sails or wings, and cause the wind wheel to rotate, the wings or sails being in a vertical position, but the wind cannot throw the wings or sails over or beycnd a vertical position without raising the weights, $m$, the cords or chains, $j$, being of sucha length to allow this. The weights when not raised by the action of the sails or wings, rest upon a circular plate attached to the vertical shaft, A. Thus it will be seen that a light or moderate breeze will expand the sails so that they will be in a vertical position, and present their whole surface or area to the action of the wind; but if the wind increases, the wings or cails will be thrown over or beyond a vertical position, raising the weights, $m$, and presenting a less area or surface to the wind, and consequently equalizing the speed of the mill. The wings or sails, of course, close when moving in the face, or towards the wind, as the weights only act upon them when moved in one direction.
This is another windmill presented to the attention of the public. The object of the im provement is to obtain a simple means of self regulating the sail surface, to be exposed to the wind according to the force of the latter. More information respecting it may be obtained by letter addressed to the patentee at Highland, Ill. See advertisement on another page.

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