Scientific American.

Science and Art.

A Moon of the Moon.

We have received a letter from E. B. Kenrick, of Cambridgeport, Mass., in which he states he has discovered, by "unentranced of solar light may be reflected through the cen- horse takes a sudden start. ter of the lunagen's disk, and discoverable by a telescope, thus affording evidence of the lunagen 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.

It is our opinion that Mr. Kenrick must have mistaken some flitting cloud in the upper regions for a gaseous attendant of our venerable globe's satellite. The astronomers of the prest 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 heavens, he having been 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 as Food.

This fruit is exceedingly abundant this year, and, as a consequence, the price of it is reasonable. 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 relates 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 their daily bread, and make a hearty healthy meal 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 more of them for food, especially during the fall and winter seasons, when they can be obtained cheap. We hope yet to be able to eat apples during the midst of summer (at fair and reasonable prices,) as sweet in flavor and rich in nutriment as when plucked from the tree. Much attention is now directed to their perfect preservation during summer's heat and winter's cold.

Rendering Teeth Insensible to Pain.

The Dublin Hospital Gazette states that diseased teeth have been rendered insensible to pain by a cement composed of Canada balsam and slacked lime, which is to be inserted in the hollow 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 Region.

the Brooklyn m 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 latitude 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."

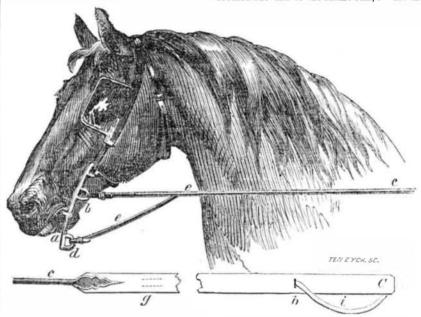
E. Meriam states that a number of earthquakes must have taken place at various points on the earth's surface this season.

GODDARD'S PATENT BRIDLE REIN.

The accompanying figure illustrates the im-Pa., on the 24th of July last. The figure represents the curb bridle applied to a snaffle bridle-compound snaffle and curb bit. The clairvoyance," a lunagen—composed wholly of curb and snaffle bits have long since been comthis discovery now, because there is to be a for each, but this involves a mass of reins in to control the curb bit. lunar eclipse on the 25th of this month, during the hand, which is very troublesome to the some part of which he supposes a bright spot rider or driver, producing confusion when a

The object of this invention is to employ the provement in bridle reins for the better man- combined snaffle and curb bits, and avoid the agement of horses, for which a patent was inconvenience and danger arising from the use granted to Kingston Goddard, of Philadelphia, of two separatereins. The nature 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 hand of the driver, forming a loop gas-revolving round the moon. He announces | bined with a separate and independent bridle | to be grasped by the hand in cases of danger,

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

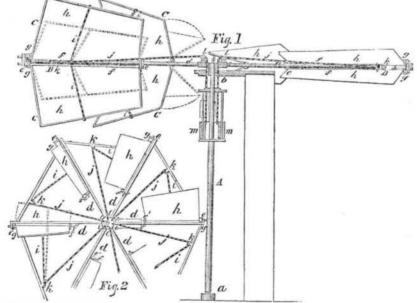


site side of the bridle and reins is the same as where the snaffle rein is grasped by the hand. suddenly and effectually. The curb rein forms a loop, i, near the hand of More information may be obtained by letter

lower end of the lever is another ring, d, to | 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, e, to pass through it; the latter should be of a the nigh side. The snaffle rein, c, is made tu- cord, or round form, and of sufficient strength. bular from about nine inches from the bit, as For ordinary riding or driving, one rein only is shown at g, in the detached open rein, C. The grasped by the hand, but in case of the horse rein, c, receives the curb rein at the junction, e, starting off, or when an accident occurs requiring as shown, and it (the curb rein,) comes out him to be instantly stopped, the curb rein at a again at h, in the detached rein, near the place is convenient for the hand to control the animal

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 improvement in Windmills for which a patent end of it runs in a suitable step, a, and its up-Madison Co., Ill., on the 17th of Julylast. Fig.

1 is a side elevation of the windmill and fig. 2 the sheft there is attached a hub or hors of the statement of the mindmill and fig. 2 the sheft there is attached a hub or hors of the sheft there is attached a hub or hors of the sheft there is attached a hub or hors of the sheft there is attached a hub or hors of the sheft there is attached a hub or hors of the sheft there is attached a hub or hors of the sheft there is a stached a hub or hors of the sheft the sheft the sheft the sheft there is a stached a hub or hors of the sheft the sheft the sheft the sheft the Madison Co., III., on the 17th of July 165th. Fig. 2

1 is a side elevation of the windmill, and fig. 2

the shaft there is attached a hub or boss, c, to besides affording them a continual source of knowledge, the experience of which is beyond pecuniary estimate.

A represents a vertical shaft. The lower was granted to J. S. Morgan, of Highland, per end is fitted in a suitable bearing, b, atany suitable number being employed. The The nature of the invention consists in have ends of these arms are connected to a rim, B, ing the sails or wings attached to the ends of which serves to brace them. At the ends of horizontal radial arms or wings, and arranged the arms, d, there are attached small plates, e, in pairs, one above and one below the end of and center plates, e', two plates on each arm. each arm, the sails or wings being connected These plates form bearings for two shafts, f_i by pinions, so that they will rise and fall si- that is, two shafts to each arm, one being dimultaneously. The sails or wings have cords rectly over the other, and connected bypinions, attached to them, to which weights are con- | g g, which gear into each other. To the nected and arranged so that a greater or less shafts, f f, there are attached wings or sails, harea of the wings or sails will be presented to | h, one to each shaft. The wings or sails may the action of the wind accor ing to its veloc- be formed of cloth, wood, sheet metal, or any ity, and the mill will be made to receive uniform | proper material. If constructed of cloth, the motion therefrom, however variable it may be. | cloth, of course, will be stretched over frames,

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 h, but in opposite directions, 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 beyond a vertical position without raising the weights, m, the cords or chains, j, being of such a 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 sails 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 improvement is to obtain a simple means of selfregulating 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



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