

The annexed engravings represent an im- tightly bound in order to prevent the escape

provement in the valves of oscillating engines, of steam. This occasions unequal wear in

invented and patented by Wm. M. Smith, of the trunnions and stuffing box of the piston

Washington, D. C. Oscillating engines pos- rod, and also detracts from the power of the

slate and steatite, which is known to extend through the found ength of the State, from north to south. This range passes through Bridgewater, near the middle, and the gold locality is but a short distance from the centre of the township, towards the southwest. The gold is disseminated very sparingly in veins or seams of quartz, and is associated with the sulphurets of lead, iron and copper. The strata of slate between which the quartz is interspersed dip some 55 degrees towards the east, and the seams of quartz vary much in thickness, and are somewhat irregular -Gold has vet been found in only a few of these seams, and most of which has been obtained was from a single seam, in which several hands are now at work. This is from ten to twenty inches wide, and some portions of it are filled very abundantly with galena, or sulphuret of lead. At a blast made in this seam while 1 was present, more than one hundred pounds of pure galena were thrown out with the quartz, together with some sulphuret of iron, and a very few small particles of gold; but whether gold or lead will here be found in sufficient quantities to pay for working is yet problametical."

Greenwood Cemetery.

This populous city of the dead is now arrayed in its summer attire, and its cool shades attract a large number of visitors. On an average, 18 interments take place there daily ; and passing the gateway from morning till night, is nearly an unbroken line of funeral processions. During a small portion of the year, the daily number of interments reaches 25 or 30. Since the 1st of January last, the interments number 2,760. The total number of interments since its first organization to the present time, is 26.470, of which 22.712 were made previous to the opening of the present year. The first interment took place in September, 1840. Some very fine monuments are now erected in it, and we presume that no other single burial place in the world gives employment to so many persons. This city of the dead overlooks New York Bay, and the grounds are very beautiful.

sess the advantage of occupying but little engine. The object of the invention is to rethe anvil, and hammered until the sufaces are space, are generally light, compared with oth- medy these defects. ers, and simple in construction. Feeding Bees. One objection which they have heretofore a face view of the steam trunnion. Fig. 2 is "Put a pound of brown sugar in a low tin been found to present, has been the difficulty an inside or face view of the valve, and fig. dish, wet it with water, and lay a number of F1G. 3. small strips of wood across for the bees to rest on while at work. One pound of six-

cent sugar produces two pounds of honey." Our neighbor of the Scientific American must revise his chemistry. How a pound of food can become two pounds of secretion, besides supporting the animals, it is beyond our reach to discover. We have seen the same statement before and commented on it in our last number.-[The Plow, Loom, and Anvil. [Our neighbor must revise his chemistry. How can a stalk of corn produce more weight of fruit than the guano applied to manure it ? The question is not how much honey is produced from a pound of food, but a pound of sugar. Does not honey contain more moisture than sugar. Let our neighbor put 20 pounds of honey in a sugar evaporating pan and expel all the moisture, and then weigh the product and see if he gets any more than 10 pounds of a gummy sugar.

melted over a clear forge fire, the soldered

part is to be placed on the beak of an anvil and heaten with a light hanner and quick

hand, as long as the heat permits. More of

the powder is then to be laid upon the ad-

joining part of the joining, until the whole of

Another method, which has been published for this purpose, is to melt five ounces of bo-

rax in an earthen crucible, and when melted, to add half an ounce of sal ammoniac, and

pour the melted matter upon an iron plate.

When cold, it will appear like glass, and is

to be powdered and mixed with an equal

The iron or steel being heated to a red heat, a little of the above powder is to be

sprinkled on the surface, where it will melt

like sealing wax. The iron or steel is then

to be again heated, but considerably below

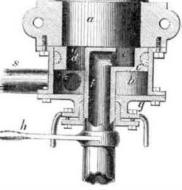
the ordinary welding heat, then brought to

the seam is soldered.

quantity of unslaked lime.

perfectly united.

Benjamin Loder, Esq., the well-known attendant upon the admission and discharge of head of the Erie Railroad Company, has re- the steam, and another difficulty has been the



signed his trust into the hards of the Board of friction occasioned by the steam trunnions a stuffing-box in the centre of the steam-chest Directors, owing to continued weak health. upon which the engine oscillates, being too' cover, g.

and firmly bolted to the lower half of the plummer block, i, forming a cover or cap to the end of the trunnion; in this steam-chest, b, is a piston value, c, the face of which is ground, and fits against the end of the trunnion: this valve is fitted with metallic or other packing on its periphery, where it touches the sides of the cylindrical steam chest, and is stationary, thereby dispensing with all valve gear. The steam alternately enters and exhausts to and from either side of the engine piston by the oscillating motion of the trunnion, a, which is made with suitable steam ways in it. The action is as follows :- The steam enters through the opening, d, of the valve and the exhaust escapes through the concave, e, to the pipe, f, which passes through

Figure 1 is a side view of the engine with

3 is a horizontal section of the valves and

steam chest as connected with the trunnion of

the engine. The trunnion, a, of the cylinder

is made as large on the face or end as conve-

ment to admit of long radial passages being

made through it; b is a short cylindrical

steam chest, which is turned on the interior

A railroad testival was had at Savannah, Geo., on the 2nd inst. It was a grand affair