## AN IMPROVED MINER'S LAMP.

A lamp strong enough to resist the action of burning gas within it, which is perfectly ventilated, and wbich gives a steady light in a current of air, is shown in the accompanying illustration, in which portions are broken away to show the interior. It has been pat ented by Mr. William J. Callaghan, of Connellsville Pit. The lamp proper, or oil-holding reservoir at the base, screws into the upper portion, to which it is


CALLAGHAN'S SATETY LAMP.
and is now pushing such equipment as rapidly as pos sible. This is not only complimentary to the good sense of the Pennsylvania's management, but it is also a healthy sign of the increased attention that is being given by railroad managers to what we have frequent ly spoken of as the refinements of railroad management.
The most successful managers of large retail establishments vie with each other in adopting refinements of their service that eliminate every possible phase of trade that is disagreeable to their patrons. The same policy should prevail in railroad operating. Railroads policy should prevail in railroad operating. Railroads have transportation to sell, and much of it is retailed
to individual passengers who are apt to bestow their future patronage where the results promise to be most pleasant; or, at least, where there is a minimum of disagreeable features. The squalling, bellowing, screeching whistles used on many passenger engines are properly classed among the latter. Their rasping tones are annoying in the daytime and exasperating at night, when they frequently startle sleeping passen gers, or entirely chase away the gentle god vainly being wooed.
The action of such roads as the Pennsylvania and Michigan Central in recognizing these facts, and adopt ing whistles with soft, pleasant tones for their passen ger engines, will surely have the effect of prompting other roads to do likewise or of drawing a larger pro portion of patronage to themselves.-National Car Builder.

## The Meerschaum industry.

Mr. Cumberbatch, British consul at. Angora, in his latest report, says that rich deposits of meerschaum are found 20 miles to the southeast of Eski Shehir, an important station of the Anatolian Rail way. The Bel gian consul in Constantinople, who recently visited the place, states that it would be difficult to determine the exact area in which the meerschaum is to be round. Judging from the number of pits at consider able distances from each other, it must be extensive The localities where most work is carried on are Se petdji-Odjaghi and Kemikdji-Odjaghi. The meer schaum is extracted in the same way as coal Pit from 25 feet to 120 feet deep are dug, and as soon as from 25 feet to 120 feet deep are dug, and as soon a the vein is struck horizontal galleries, sometimes of considerable length, are made, but more than two gal leries are seldom to be found in one pit. The stone as extracted is called "ham tash," or rough block, and is soft enough to be easily cut with a knife. It is white with a yellowish tint, and is covered with a red clayey soil of about one inch thick. In this state the block are purchased by dealers on the spot, not by weight or by measurement, but according to approximate quantity, either per load of three sacks or per cartload, the price varying from $£ 5$ to $£ 30$ per load, according to quality. These blocks are dried and subjected to cer tain preparations before being conveyed to Eski Shehir. Some of them are as small as a walnut, while others attain the size of a cubic foot. Those which combine regularity of surface and size are the best The manipulation required before they are ready for exportation is long and costly. The clayey soil is re moved and the meerschaum dried. In summer expo sure for five or six days to the sun's rays suffices, but in winter a room heated to the required temperature is necessary, and the drying process takes eight to ten days. When dried the blocks ar well cleaned and polished, then they are sorted into about 12 classes each class being packed with great care in separate cases, and each block being wrapped in cotton wool. The bulk of the meerschaum is sent to Vienna, where it is worked, and dispersed all over the world. Most of the finest specimens are sent direct to Paris. Certain American dealers have visited Eski Shehir with the object of obtaining the raw article direct instead of through Vienna, thereby saving the higher custom house duty pay able on the worked meerschaum. The quantity annually exported is put down at 8,000 to 10,000 cases The various taxes levied by the Turkish government amount to about 37 per cent ad valorem.

How to Locate a Claim.
To make a quartz location after July 1, the prospector must sink raising the underflow of surface water for irrigation $\mid$ hole at least ten feet deep to solid formation, must and other purposes, as it will puinp simultaneously from a group of pumps fifty feet apart if desired.

Chime Whistles on Passenger Enginea.
It is heing announced by some of the technical papers that the Pennsylvania Railroad has adopted chime whistles as standard for its passenger engines. The cact is that this road has been equipping its passenger engines with chime whistles for the past two years,
have at least one well defined wall, and must stake his ground so that the stakes can be found. The notice of location must be placed in a conspicuous place at the discovery shaft, where it can be seennot on some stump or tree in the neighborhood. He is allowed ninety days to do this work. If he relocates an old prospect hole, he is required to sink it at least ten feet deeper than when he first found it, and stake and record his location the same as though
it was an original discovery. If he runs a tunnel it must be at least ten feet long, so as to determine the fact that a vein supposed to carry the precious metal has been discovered. -The Mining Review.

## A TOILET POWDER RECEPTACLE.

The illustration shows a holder for tooth powder etc., arranged to readily deliver a certain quantity upon a tooth brush, or where desired, without waste. t has been patented by Mr. L. S. Upton, Governor' sland, New York City. It has a conical bottom and opper-shaped top, with an apex opening closed by a valve with inwardly extending stems connected to head carrying a sleeve with an $L$-shaped slot, engaged $y$ a pin on the end of a plunger. The plunger is held normally in the position shown by a coiled spring, and has on its outer end a thumb-piec,; by pressing on


## OPTON'S POWDER HOLDER

which the valve is opened to pass the powder out of the receptacle, the plunger returning to normal position on the removal of the pressure, and at the same ime seating the valve. The valve is removably connected with the plunger to permit of conveniently placing the powder in the receptacle.

## A CHIMNEY FLUE PIPE OPENING COVER.

To prevent gases, smoke, soot or fire from passing into a room of the house from a pipe opening of the chimney flue, Mr. Axel A. Gustafson, of Axtell, Neb.. has patented the device of which several views are presented in the accompanying illustration. It has a dished cover, with an annular flat flange adapted to rest on the face of the wall, so that the cover closes the pipe opening, and in the center of the cover turns a screw rod, with a knob on its outer end, while on its inner end screws a nut in a disk which engages the inner surface of a cone-shaped expansion thimble. The thimble has overlapping side portions connected


GUSTAFSON'S SAFETY FLUE THIMBLE COVER.
with each other near the apex of the cone by a rivet which forms a pivot, permitting the base end of the thimble to readily expand or contract on moving the disk inward or outward by turning the screw rod. The device may thus be readily fixed in position in the pipe opening, and is removed without trouble when a pipe is to be placed in the opening.

Ravages of Snakes and Wild Animals in India. The number of deaths in India caused by bites f wild animals and reptiles is on the increase. The
 the same period nearly 120,000 deadly snakes were killed. Wild animals caused the death of 2,800 persons in the same year. The tigers killed uearly a ;housand; leopards, 291 : wolves, 175 ; bears, 121; and elephants, 68. On the other hand, nearly 15,000 wild beasts were killed, including nearly 1,300 tigers and more than 4,000 leopards. In addition to) the loss of human life, nearly ninety thousand head of cattle were destroyed. The bounties offered by the government seem ineffectual to decrease the number of wild animals.

