Scientific American.

clusions with other remarks.

his attention was directed to this being the cause of cholera. He examined these insects seasons he believes they fill the atmosphere in great swarms, but are not readily observed, owing to their dust color, and that they carry disease into every place they visit by being inhaled by persons while breathing, and also by Since the date meutioned, when he first enterhave strengthened his convictions. In 1853, a forced by a blowing machine. year very free from cholera in the eastern cities, he was not able to obtain the account of a single one of these fling the goods. Have year about the 1st of July, when the cholera raged in New York and Philadelphia, he discovered great numbers, and he believes that for weeks the atmosphere in many places was filled with them. On the evening of Sept. 4th, 1854, during a long, dry, and warm period, he noticed at the setting of the sun that the atmosphere had a yellow brownish tint, and aurora borealis. He was led to believe that this was caused by myriads of these insects in to be without smell, and of good quality. the air, and that they were settling down along the Susquehanna river. On the next day a south-west wind arose and blew for three days, and he concluded that if his insect theory were true, it would blow them from the river shore into the houses on the east side of the Susquehanna and develope the cholera there. This with violence in the Borough of Columbia, while Lancaster, so near to it, was healthy. Mr. Reigart believes that the pure limestone water of Lancaster is the cause of its immunity from this disease.

The following is the fact which he has sent us bearing upon his theory in relation to the yellow tever:

"The Norfolk correspondent of the Petersburg Express, speaking of the 'plague fly,' says:

"Its body is about the size of our common fly, of a yellowish color, with long delicate porous wings, of a texture as fine as the softest gentleman. silk. They fly together in swarms, and may scattered around, awaiting interment, literally handles. last poor mortality about it that was absolute- | bones, or animal charcoal, to the action of sul-, from Foggy and find out for certain. ly sickening!"

Smith, of Baltimore, who is well known to our and that which is soluble is taken up, but the finely rounded they are pithy, clear, and to the that he will not abandon the plan as long as readers, states his belief that they were a large insoluble is not. It is concentrated by boil- point exactly. The complaint is often made he can cut steel with sheet iron. He trims his spec es of winged ants which sometimes swarm ing to drive off the water, so as to produce a by thoughtless workmen that new machinery saw teeth in a peculiar manner, and states that in myriads and immigrate. Large bodies of granular mass of high fertializing power.

Insects and Pestilence.—The Cholera and Yellow these winged ants have visited Baltimore and other places recently. Mr. Reigart, however, Some time since there was placed in our sent some specimens of his cholera insects last suggests to the railroad companies the wisdom but it does not destroy the demandfor laborers. possession the manuscript copy of an interest- year to Dr. J. G. Morris, of Baltimore, a famous and humanity of insuring the lives of their en- On the contrary, it increases the demand for ing treatise on the cause of cholera, by J. Frank- entymologist, who found them to be genuine gineers. He says: "Let railroad companies all kinds of skilled labor, and thus exerts a lin Reigart, Esq., of Lancaster, Pa., for which | flies, of the genus musca, and a species entirely | think of this suggestion. They are pained to wholesome influence in raising men above mere we have not had space for publication, but as new to him, and which have never been de- see a faithful engineer fall at his post in the drudgery, to become more intelligent and skillhe has just sent us a new fact bearing on his scribed nor published by any naturalist in the discharge of his duty, and leave a young fami-ful. theory, connected with the yellow fever at United States. The conclusion at which Mr. ly to the charities of a cold world. They feel Norfolk, Va., we deem it a proper time to pre- Reigart has arrived respecting this cholera in- that they must do something to alleviate their sent the substance of his observations and con- sect is, that it came from Asia, and that the wants, and as in the present instance an annual have made the greatest efforts to resist its incholera can be traced in its course from that appropriation is made for that purpose. But, troduction. But the days of mobs to break He attributes cholera to a small poisonous part of the world down through Russia, the far better would it be for railroad companies to fly, and considers lime water a certain anti- Baltic Provinces, across the North Sea to the insure the lives of all their faithful engineers, dote. Lancaster is a limestone region, and has Cromarty Firth-being first seen there in that in the event of their falling at their post, never had over ten cases of cholera in it, al- the form of a yellow cloud, terrifying the the companies may be saved the unpleasant gent, cannot but rejoice at the success of every though it had daily communications with inhabitants—then spreading through Britain, feelings always accompanying the fact that Philadelphia and Baltimore (only 65 miles crossing the Atlantic to the United States, their poor families are unprovided for. Five distant) during the time when this terrible and carrying death and terror to the dis- hundred dollars a year would insure the lives disease prevailed in those cities in 1832 and tant Rocky Mountains. He states that dur- of ten engineers for \$2000 each during their en-1852, and also in other places nearer hand. ing cholera seasons the sky has always a tire lives, beginning at the age of twenty-five. Early in the morning on July 30th, 1852, he yellowish appearance caused by clouds of in- It is the very best means a company can em- little noise in the world, and do considerable noticed that the wooden spout of the hydrant sects in the air, and that they are the real ploy to provide for the families of those in their in his yard was covered with numerous small, scourge of man in the form of the cholera, employ who may, at any moment, be bereft of It is to be made on new principles, or rather it dead insects of a dust color, the destruction of This is an important question, as the cholera husband and father by such an event as the will be an adaptation of several old models, which he attributed to the lime water deposit has apparently, within the past few years, be- one which made a widow and orphans of the and will combine the peculiarities of the Paixon the hydrant spout. This was the first time come a permanent disease among us, afflicting wife and children of poor Holland, who was han gun, the Minie rifle, and the grooved mussome part of our extensive country during killed recently on the Camden and Amboy ket. In addition, a new detonating powder has every month of the year. The insect theory of Railroad, and but for whose intrepidity the with a small object glass, to satisfy himself cholera is by no means new, but Mr. Reigart accident would have been more disastrous. that they were not small red ants. In cholera brings forth new facts to support it; still we must say that it is not conclusive.

Recent Foreign Inventions.

out a patent for constructing grain store houses being taken unnoticed in food and drink, by having an air chamber under the floor of been his feelings had he known to a certainty vated to a great angle to reach that distance, the grain room, and by having the floor on tained the idea of insects being the cause of which the grain is laid pierced with small thrown upon charity for support. Like poor cholera, he has gathered up many facts which | holes, through which currents of air are to be

FISH BLUBBER SOAP .- R. Johnston, of Aberdeen, North Britain, has taken out a patent for the fate of the dearest objects of his earthly manufacturing soap as solows. He has bone week. fish or blubber for some hours, then lets the and composted to make manure. He then strains anything for their families. Their lives are in the liquor through a coarse bag, which is put constant peril for others' good and others' gain. into a press and all the loose matter pressed. They may be stricken down in a moment, and out. That which is left in the bag is put into their wives and children left comparative begthe soap kettle with one-fourth its weight of | gars. that the rays of light seemed moving like the tallow and boiled with caustic soda or potash for seven hours. The soap thus made is stated

PURIFYING WHALE OIL .- Peter Arkell, of patent for purifying whale oil as follows: He puts common whale oil in an iron still with one ounce of salammoniac and a pint of turpentine to each gallon, and applies heat to the still. actually took place, and the cholera raged it during the period distillation is going on. The still is stirred by a rod passing tight into The oil that is distilled over is stated to be peculiar in its character, and of a superior quality. A quantity of black pitch is left behind in the still.

> STEERING VESSELS.—Sir James Anderson. of Fermoy, Ireland, has obtained a patent for it after the five hands, which, in the estimate, steering ships, by using steam pressure to act upon pistons for operating the rudder.

This is the baronet, we believe, who did so much to introduce steam carriages on common roads, but all his efforts failed of success. He is, however, a very ingenious and enterprising

be seen in large numbers on the fig trees; but -B. Samuel, of Sheffield, England, has taken demand for labor by quadrupling the size of our their great point of attraction seems to be the out a patent for manufacturing the above- farms. A few years ago a twenty acre meadow coffins, in which repose the ill-fated victims of named articles, having the transparency of was considered "some grass." We have mea-'Yellow Jack.' We took a stroll out to that solid tortoise shell, by first molding them of dows now of a hundred acres, while in Illinois Golgotha of burial grounds, Potters' Field, horn, then encasing them in tortoise shell by there are meadows of five hundred acres. But yesterday, and were intensely horrified at see- means of heat and pressure. This hint may be there is ano her proof that these machines have ing many of the coffins that lay on the ground of great benefit to our manufacturers of knife not lessened the demand for labor, and that is he utters his words of wisdom at the right

y sickening!"

phuric acid in a reverberatory furnace. The The above is from the Albany (N. Y.,) saws sharpened with sheet iron, Phillip Strick-In reference to these flies, Dr. Gideon B. mass thus obtained is then dissolved in water, Knickerbocker, and if its sentences are not ler, of Timberville Mills, Timberville, Va., states

Insuring the Lives of Railroad Engineers.

A correspondent in the Philadelphia Ledger

"It is less than a year since the writer was an actor in a scene in a neighboring State similar to that just referred to. The poor wife and children!" How different would have close his eyes without knowing what would be

The compensation which engineers receive contents in the boiler settle, and takes all but precludes the possibility of their paying insurthe deposit at the bottom, which is thrown out ance on their own lives, or of their laying by

Men and Machines.

Let us compare a little the two modes of cutting grass. Day laborers, hired at one dollar Stockwell, Surrey, England, has taken out a per day, will probably mow in medium grass one and a half acres to the hand; that is, it will cost five or six dollars to mow eight acres, and twenty-five cents each hand for boarding will be one dollar and fifty cents more, which, added to five dollars and fifty cents, makes seven dollars for mowing eight acres. Now, hire a man with a span of horses and a machine to cut the eight acres at fifty cents per acre, and he will cut it in a day; four dollars, and one dollar more will pay their boarding, making in all five dollars, and the grass will be spread better for curing than a man will spread will make three dollars advantage to the mower. At that rate, the machine will pay for itself in forty days' mowing, besides saving so much hard labor. But just here steps in Mr. Foggy, of the firm of Foggy, Doubt & Co., and says if the Mowing Machines do as much as eight men it will throw eight men out of work. BEAUTIFUL UMBRELLA AND KNIFE HANDLES. No such thing. Moving Machines increase the shown by the fact that during the present harblack with these loathsome little insects, that Manufacture of Superphosphate of Lime. vest, farm hands have received from \$150 to like other men, and enjoys himself, perhaps squirmed themselves upon one another so thick —C. F. Bernard, of Plymouth, England, has \$2 50 per day. Did Mr. Foggyeverknowsuch as to exclude the coffin entirely from sight. It taken out a patent for the manufacture of dry wages to be paid to such workmen before the was the most disgusting spectacle we ever be- phosphate of lime, suitable for agricultural introduction of "these cussed machines?" held having an oily, wormy significance of the purposes as a manure, by submitting calcined We think not. Still we should like to hear

> The above is from the Albany (N. Y.,) throws people out of employment, and thus there should be only 24 teeth in a four foot saw

tends to injure a portion of the community. Machinery, no doubt, supersedes hand labor,

No class of operatives have been so much benefitted by machinery as the very ones who machinery has gone past forever. All those who desire the good of themselves and their neighbors of every degree, if they are intellinew machine.

A Big Gan for the Russiaus.

We are informed that a cannon is in process of construction in this city, which, if it realizes the design of its projectors, will make no damage to the ships and armies of the Allies. been discovered of two and a half to three times the explosive power of ordinary gunpowder, and the inventor claims that they will be enabled to throw their shot from twelve to fifteen miles, at an angle of not more than two engineer was the only victim, and his last inches above the level. One of our English Graineries.—L. Salaville, of Paris, has taken words were, "O, what will become of my poor exchanges states a gun has been invented that will throw ten miles, but then it must be elethat those he so tenderly loved would not be thereby losing much force. This new American gun, when finished, and if proved success-Hollandhe was the best engineer in the employ ful, is to be presented to the Czar of Russia of the company, and like him, was compelled to to be used by him against the Allies. A few guns of this description, if properly aimed, would do immense damage to shipping, and would be of great use in the Baltic and the Black Sea.—[New York Herald.

[Munchausen is abroad again! We published, not long ago, an account of a ten mile gun, invented in Nantucket. This same invention appears to have been on a traveling tour ever since among the newspapers. Like a snow ball, its dimensions have been augmented by progress; it has picked up and attached to itself a curious medley of fighting materials; it has become a perfect hydra.

The wonders of this "Big Gun" are not half stated in the above description. It is a law in gunnery, that for the first few degrees of elevation in the muzzle of a cannon, the range will increase in part proportion to the angle of altitude. Thus, if the above "Big Gun" will shoot 15 miles with its mouth, elevated 2 inches, it will carry nearly 30 miles on an ang'e of ten inches, &c. Surely Sevastopol carnot hold out much longer!

P. S. It has been taken without the "Big

Intellect and Enjoyment.

There is no greater or more prevalent mistake than the supposition that the intellectual developement is inconsistent with a keen sense of enjoyment. There are, it is true, a considerable number of grave, dull, would-be sages, moving at a snail's pace, with a snail's gravity, through society-looking, as Oken says in his trancendental philosophy, like so many prophesying goddesses seated on tripods. But nine out of ten of them maintain a philosophic fame only on the credit of an ominous and unbroken silence; the tenth on the strength of supporting some incomprehensible paradox, which neither he nor the stapid people who listen to him comprehend. Your real philosopher is neither uncommunicative nor dogmatic; even mere intensely, when enjoyment is afloat.

Dressing Circular Saws.

Contrary to the opinions expressed by two or three correspondents in our last volume, respecting the impracticability of using circular