## Corder for Sewing Machines.

The accompanying engraving represents a little attachment which may be applied to any sewing machine in use, in cording fabrics. The spool, A, containing the cord is slipped upon the axle, c, and the cord is led through the loops upon the spring blade, b, to the point, d, and through the groove in the toe piece of the shoe. It is here received between the two sheets of fabric, which pass under the shoe, and stitched without previous basting. The cord may be inserted in straight, curved or waving lines, and in such manner as to bring all the fullness

produced by the cord on one side of the fabric, leaving the other side perfectly flat. The right to use this in-

vention has been sold to some of the leading sewing machine manufacturers, and the inventor is desirous of selling it to others. The patent was granted Dec. 27, 1859, and further information in relation to the matter may be had by addressing the inventor, O. G. Brady, at 440 Broadway, New York. See advertisement on another page.

Vulcanizing India Rubber-Influence of Occupation

Upon Health, The following extracts on this important subject, are from the Paris correspondent of the London Lancet :

None of the most arduous callings in life can be exercised without a measure of wear and tear in the human machine. In no way can the destructibility of the working material with which we men are provided be better seen than by a consideration of the special diseases which the exercise of particular professions entails upon their adepts. The statesman, clergyman and lawyer have their especial sore throat, the doctor his dissecting wound, the knife-grinder his phthisis, the painter his colic, the lucifer-match maker his necrosis, the chimney-sweeper his cancer; and so on through a long chapter of accidents, ending only, it would appear, with the last item on the catalogue of professions. In presence of this almost daily increase of morbific causes, it behooves medical science, as the sentinel of civilization, to be more than ever on the alert, to check the hurtful progress of new diseases Such is the object of a paper read at the Paris Academy of Medicine, by M. Delpech. Some few years back, this writer, in a communication to the Academy, first drew notice to the baneful effects produced by the sulphuret of carbon upon the workmen employed in the preparation of vulcanized India-rubber. The process termed "vulcanizing" is effected by the exposure of caoutchouc to the action of a mixture of sulphuret of carbon with chloride or bromide of sulphur; and, according to M. Delpech, the respiration of air charged with the vapor given off during the operation produces, in a large proportion of the workmen so engaged, symptoms not unlike those resulting from the inhalation of ether, chloroform, or other anæsthetic agent, with the difference that in the former case the effects are more gradually developed. The particular branch of the India-rubber manufacture whence the author has gleaned his most prominent facts, is that in which the caoutchouc is blown into bags or bladders for medical and other purposes ; and here he has divided the symptoms of intoxication into two stages. In the first are ranged headache, giddiness, cutaneous hyperæsthesis, with feelings of creeping or pricking, and muscular pains. A certain degree of excitement and agitation also is not uncommon, together with a tendency to laugh or cry without reason; and with these half-hysterical symptoms may coexist sleeplessness, night-mare, and great irritability of temper,

sometimes ending in confirmed mental alienation as a climax. In other cases the stimulus has affected the muscular system, in the way of snasm or stiffness; or, again, the digestive or respiratory organs, by the production of bulimy, nausea, cough and oppression ; and, lastly, the heart and circulation, in the way of fever and palpitation. In the second stage, the poison would seem almost exclusively to have impaired the functions of the nervous system, as exhibited by decline of the intellectual powers, American cotton sold.

melancholy, indifference, loss of memory, defective vision, deafness and insensibility of the skin, together with loss of sexual power, atrophy of the seminal glands, general muscular debility, going on to paraplegia, wasting and cachexia. By means of experiments on animals, M. Delpech has ascertained that rabbits, for example, although easily affected by the vapors of the vulcanizing mixture, or by those of the sulphuret of carbon alone, passed several days with impunity in an atmosphere charged with chloride of sulphur, and he therefore argues, with much apparent fairness, that the former ingredient alone is

# Suggestions How to Prevent Fires.

The Philadelpia Ledger publishes a number of suggestions in regard to the prevention of fires, which we commend to the attention of housekeepers, tradesmen, manufacturers and others. They are as follows :- Keep matches in metal boxes, and out of the reach of children. Wax matches are partiularly dangerous, and should be kept out of the way of rats or mice. Be careful in making fires with shavings and other light kindling. Do not deposit coal or wood ashes in a wooden vessel, and be sure burning cinders are extinguished before they are deposited. Never

put fire wood upon the stove

to dry. Never put ashes or

a light under a staircase. Fill

fluid or camphene lamps only

by daylight, and never near

a fire or light. Do not leave

a candle burning upon the steps of a stairway. Never

leave a candle burning on a

bureau or a chest. Alway be

cautious in extinguishing

matches and other lighters be-

fore throwing them away .---

ALM.

By way of practical deduction, he infers process. that if the workpeople could be so placed, when manipulating these poisonous materials, that a glass screen should intervene between them and the caoutchouc under preparation, their arms being passed through apertures properly stuffed in order to prevent the entry of vapor, much benefit would accrue, in a hygienic point of view, to the employees in this branch of trade.

### HEARING TRUMPETS.

Hearing trumpets formed of vulcanized india rubber and made to fasten on a suitable cap, as represented in the annexed figure, might be used by military scouts for the purpose of detecting distant sounds unappre-

ciable by the naked ear. It is of great importance to detect military movements made during night; hence soldiers who are quick in hearing should always be chosen to perform picket duty during hours of darkness, when sudden attacks or secret movements of the foe are expected. It is well known that some animals, such as dogs, can hear distant sounds when the human ear is at fault ; it was therefore customary for Roman soldiers

on guard in an enemy's country, to use a watch dog that was quick of ear so as to give warning when a foe was approaching with stealthy footsteps. It does not appear unreasonable that art may enable men to rival the most sensitive-hearing creature by such a device as is here represented.

### CHLORINE AS A DISINFECTANT.

Of that class of disinfectants which remove odors by destroying them by far the most powerful is chlorine. Nearly all the offensive odors that we encounter are organic compounds, generally containing hydrogen. Chlorine has a very strong affinity for hydrogen ; so strong that when chlorine comes in contact with a compound of hydrogen, nitrogen, carbon or oxygen, the hydrogen leaves the other elements and combines with the chlorine ; and the compound is thus broken up.

Some of the compounds of chlorine are even more powerful asdisinfectants than the element alone. One of these is hypochlorous acid, which is a compound of one equivalent of chlorine with one of oxygen, Cl.

O. The substance popularly but improperly known as the chloride of lime is in fact the hypochlorite of lime; being formed by the combination of hypochlorous acid and lime. This is one of the most powerful disinfectants known. It generally destroys odors by oxydizing them, giving up its owu oxygen to the organic compound and burning the latter up. Chlorine is exceedingly injurious to the lungs, and therefore should never be used in inhabited apartments.

THE Naumkeag Mill, in Salem, is about importing a load of cotton from India, to supply the place of

Never throw a cigar stump responsible for the baneful effects resulting from the | upon the floor or into a spit box containing sawdust or trash, without being certain that it contains no fire. After blowing out acandle, never put it away on a shelf or anywhere else, until sure that the snuffhas gone entirely out.

A lighted candle ought not to be stuck up against a frame wall, or placed upon any portion of the wood work in a stable, manufactory, shop, or any other place. Never enter a barn or a stable at night, with an uncovered light. Ostlers should never smoke about stables. Never take an open light to examine a gas meter. Do not put gas or other lights near curtains. Never take a light into a closet. Do not read in bed either by candle or lamp light. Place glass shades over gas lights in show windows, and do not crowd goods too close to them. No smoking should ever be permitted in warehouses, especially where goods are packed or cotton is stored The principal register of a furnace should always be fastened open. Stovepipes should be at least four inches from wood work and well guarded by tin. Rags ought never to be stuffed into stovepipe holes. Openings in chimney-flues for stovepipes which are not used, ought always to be securely protected by metallic coverings. Never close up a place of business in the evening without looking well to the extinguishment of lights and the proper security of the fires. When retiring to bed at night, always see that there is no danger from your fires, and be sure that the lights are safe. This is the season of the year when fires are indispensable everywhere, and when the short days and long nights render it necessary to burn lights for many bours. The above suggestions, if carefully followed, may be the means of preventing numerous fires, and thereby saving thousands of dollars' worth of property, as well as preserving many valuable lives.

#### Those who Live in Glass Houses Should not Throw Stones.

We find in the Irish Agricultural Review the following communication from Capt. Norton, the wellknowninventor of war projectiles :-

ANIMAL and vegetable life exists in the sea at a depth of 2.500 vards.



