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It would require many columns to detail all the ways in which the Inventor or Patentee may be served at our offices. We cordially invite all who have anything to do with patent property or inventions to call at our extensive offices, No. 37 Park Row, New York, where y questions regarding the Rights of Patentees, will be cheerfully

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S. D., of Conn.—The question of lubricating valves and pistons of steam engines will soon be discussed in the SCIEN-IFIC AMERICAN. It tends to injure a steam boller to refull it im-mediately after blowing off in winter; the abrupt contraction of the iron, from a high to a comparatively low temperature weakens

t would injure the flues to burn them out whether the boiler is full or not; the heatmust be so intense to affect the scale that the flue is burnt e'oreit is removed. The deposityou mention can be removed by using a stiff wire brush with short handles linked to gether like a chain, this can be employed in the shortest turns. It will take some time to do it thoroughly if the flues have been neglected. An eel as thick as a man's thumb and of proportionate length must be a singular fish; we could not account for the presence of it anywhere, much less in a spring on the top of a rocky hill. The eel must have been a water snake.

- E. L., of Mass.—Gas stoves are in quite extensive use. and it seems to be generally supposed that they are serviceable in warming rooms, but we have never known of any careful experi ments being made to ascertain whether a room is heated more uickly by means of the stove than it is by burning the same quan tity of gas in the open air. In both cases the combustion would probably be perfect, and the absolute amount of heat generated would be the same. As, however, heat accompanied by light ense heat—passes more freely through diathermic bodies eat of low temperature, the stove would cause a larger quantity o heat to be absorbed by the air, a correspondingly less quantity passing through the air into the walls. But the principal advantage of the stove is probably to prevent the heat from rising to the upper part of the room, as it does in the upward current produced by an open burner. Gas burned in a stove, as well as in an open jet, not only exhausts the oxygen from the air, but generates in its place carbonic acid, and if a large jet were burned a long time in a small room it might prove fatal to the loccupants; but we have ever heard of a case of death from this cause.
- O. P. B., of Ind .- Trees grow by a deposit of new matter each year between the bark and the wood all round the trunk and branches. This deposit is made in the form of cells, and those which are deposited in the spring have their cross walls absorbed and form minute tubes extending the whole length of the tree. But those which are formed late in the season become filled with solid matter. Thus each year's growth of the tree is an envelope, the inner portion of which is porous, while the outer portion is solid wood. When a tree is cut down it is easy to ascertain its age y counting these yearly rings. An estimate formed by counting the rings in an inch of section near the bark, and multiplying these the number of inches in the semi-diameter, would mislead, as he rings are generally broader near the center
- Mass.—You can procure photographic guncotton of Seely & Boltwood,244 Canal street, this city, They would doubtless make some for you, to order, by Baron von Lenk's pro
- C. R. L., of N. Y.-If you will look on another page of this journal you will see an artic e called "A hint worth remembeging." You can draw an inference from that whether your ma-
- ching is worth patenting or not.

 C. E. H., of Cal.—We do not now know where you can procure a good rock-drilling machine. There are none now on sale in this market, so far as we can ascertain.
- J. A. McC., of Mich.—Address Wilcox & Hall, Middle town, Conn., for galvanized castings of malleable or cast-iron.
- J. R. L., of N. Y.—The safety valve was nrst invented by Papin in 1700, who applied it to a cooking machine for digesting bones, meats. &c.
- A. S., of N. J.—Your small boiler is not safe over 25 pounds on the square inch. Slippery elm will sometimes remove scale from boilers; in others spent tan bark has been found useful. The nature of boiler scale varies with the locality; what might be a good prescription in one case would be utterly worthless in Pure rain water is decidedly the best if you can get it.
- J. W., of Canada.—We perceive nothing new in your suggestions. Vessels with compartments, and a rudder at each end are now in use. Propellers at the sides are old. Fog signals for indicating the direction of movement for vessels are employed.

- G. S. S., of Pa.-Use Hilton's Insoluble Cement for sticking your glass letters on to your wind It can be had in stores.
- P. S., of Va .- You should address H. C. Baird, 406 Walnut street, Philadelphia, for a treatise on the slide rule. If he has'nt got it, he canget it, or anything else in the book line.

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