

Improved School Settee.

This engraving illustrates a new and peculiar style of settee intended for the use of schools. By the construction of it, it may be converted into a settee or desk at will, and the peculiar feature is, that while the desk is ample in width for all purposes, when turned down the same surface serves for a seat, although the space required for the latter is very much less than for a desk; unless, therefore, some peculiar arrangement was made the same part could not be made to serve two purposes. By carrying the end, A, Fig. 2, of the board back sufficient width is given for a desk when the top is turned up, as shown in the same figure, but the recession of this projecting part, when the top is used as a settee, allows the pupil to be seated with comfort and listen to the pre-

This piece of school furniture is light, strong, and neat in appearance, and well worthy the attention of those about refitting or constructing educational institutions. It was patented on the 16th of November, 1864, through the Scientific American Patent Agency; for further information address D. I. Stagg, 94 Crosby street, New York.

Ilmenite Ore.

This ore, which is now coming greatly into use in England, and the exhibition of samples of which has excited much attention, is the product of valuable mines of titanium ore, or ilmenite, at Egersund, in Norway, extending over five miles. These have been purchased by the Titanium Ore Company, who are now raising nearly 1,000 tons per week of the ore.

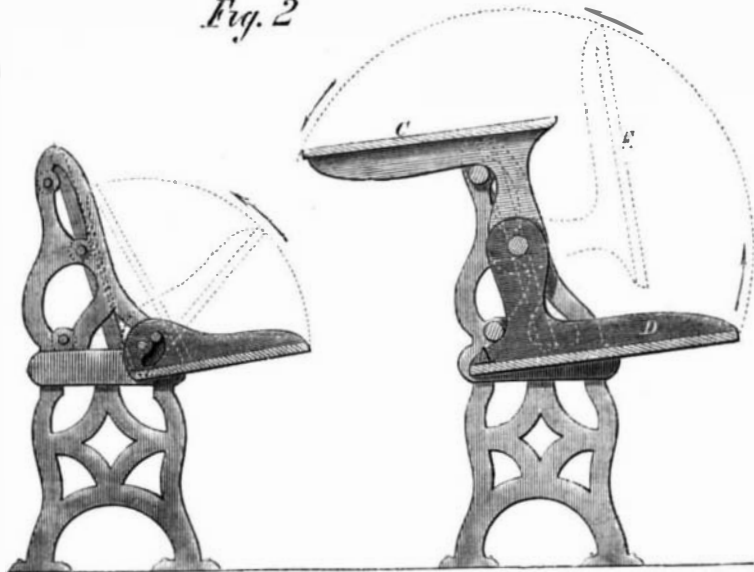
tained bears a strain of from 10 to 20 tons, and in some instances even 30 tons per square inch beyond that sustained by other steel, and the manufacturer is thereby enabled to produce a superior quality of steel for all purposes from materials of a much cheaper class than those ordinarily employed. Eminent iron making firms, who are manufacturing hematite and other pig iron, have used with their iron ores a mixture of titanium ore for some time, and are now purchasing large quantities for more extended operations.—*Ryland's Iron Trade Circular, London.*

Musk.—The Empress Josephine was very fond of perfumes, and, above all, of musk. Her dressing-room at Malmaison was filled with it, in spite of Napoleon's frequent remonstrances. Forty years have elapsed since her death, and the present owner of Malmaison has had the walls of that dressing-room repeatedly washed and painted; but neither scrubbing, aquafortis, nor paint, has been sufficient to remove the smell of the good empress's musk, which continues as strong as if the bottle which contained it had been but yesterday removed.

Fig. 1.



Fig. 2.



STAGG'S SCHOOL SETTEE.

cepts of the venerable pedagogue in spectacles, who is represented in Fig. 1 in the act of cautioning the young man never to write yellow-covered novels or make copy that printers cannot decipher.

In the same figure the position of the parts is shown very clearly; the back, B, Fig. 1, is permanently fixed and never moves, while the top, C, turns under it as at D; the dotted lines, E, Fig. 2, show the position of the top in the act of being turned. A rack for books, slates, etc., is constructed immediately under the top, behind the back at F, Fig. 1, and free passage can be had at all times between the seats in different parts of the room.

Ilmenite is used in the puddling furnace, both as a fettling material and as an improver of the iron. As a fettling material it is much more durable than any yet employed; the furnace only requiring to be fettled once a week, while with Lancashire ore the furnace requires fettling twice or more each turn. It is now generally admitted that the introduction of ores of titanium into the blast furnace with the ordinary burden of iron ore, produces a great improvement in the iron made, and very extraordinary results have been obtained. The tensile strength of the iron thus made has been unprecedented. In steel, manufactured with an addition of titanium ore, the strength ob-

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