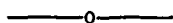said, because the apparatus was not in working order, and, in-deed, under any circumstances, the sea was so smooth that no crucial trial could have been made. Looking for a fair and com-plete trial at no distant date, we do not care to canvass the prin-ciple of the invention or the probabilities of success, but may record that in point of luxurious accommodation and all sorts of comfortable appliances, the "Bessemer" rivals any passenger ship afloat.—*Lancet.*

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A NEW SEWER TRAP.

Dr. Dukes, the medical officer to Rugby School, has directed our attention to a new sewer trap, patented by Messrs. Potts & Co., of Handsworth, Birmingham, under the name of the "Edinburgh Air-chambered Sewer Trap." This trap, on the house side, communicates freely with the open air, and on the sewer side is placed also in communication with the air by a special shaft. As in Molesworth's trap and some other traps, the principal object of the new trap is to disconnect the house drain from the sewer, so that no sewer air shall pass along the house drain into the house, but under all circumstances which would determine such passage, shall be diverted into the open air. This is effected in the new trap by the house drain opening into a chamber which communicates freely with the open air by a grat-ing. The outlet of the house drain is closed by a flap which opens on the slightest pressure; and the grating is made double in order that charcoal may be placed in the interspace if thought desirable. A diaphragm in the chamber, depending from the grating, is believed to be effectual in determining an in-and-out current of air. The chamber opens into the sewer through an ordinary syphon, or midfeather trap, and on the sewer side of this trap provision is made for attaching a pipe to be carried to the roof of the house. The apparatus is another and very ingenious attempt to apply in common drainage practice the principle of breaking the direct communication of house drains with sewers, so long insisted upon by Mr. Robert Rawlinson. It promises to be a