former, but not the latter, which ously interfering with either the ensank in a few minutes. The Cunard steamship Oregon, of 7,000 tons, was sunk by a miserable little wooden heads; six have no doors: the other

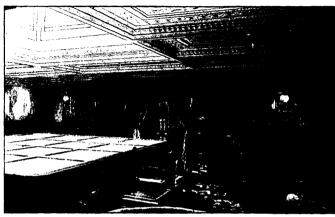
gines, boilers, passengers or cargo. The Empresses have eleven bulkschooner which struck her in a vital five have water-tight doors with

patent releasing apparatus.

There remains to be considered one other danger, common to all ships, and perhaps the most terrible of all to landsmen—that of fire. The great advantage of an iron ship, and especially of a "twin screw," over a wooden ship, is that the fire can be confined to one section and drowned out with water, or steam from steam

pumps or direct from the boilers, without the passengers even being terrified by smoke.

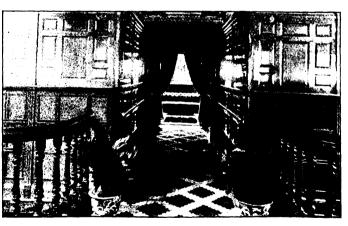
Here it may be well to describe the extraordinary accident which be-



THE LIBRARY, SS. EMPRESS OF INDIA.

part near the engine-room. Her bulkhead might have saved her, but it was pierced by sliding doors: the grooves were filled with small coal and the doors could not be closed in time.

The Canadian Pacific Railway ships have two independent sets of engines and boilers. and have central longitudinal bulkheadsrunning from the keels on to the main deck. The effect of this is fourfold: 1st, it cuts the space into halves; 2nd, it strengthens the transverse bulkheads: 3rd, it effectually separates the two sets of



ENTRANCE TO SPECIAL STATE ROOMS AND LIBRARY, SS. EMPRESS OF INDIA.

the ship greater longitudinal strength. In fact it is possible to divide the whole ship into sections and thus accident is without a parallel, and may render her unsinkable, without seri-

engines and boilers: and 4th, it gives fel the City of Paris, which is a "twin screw." She was being driven very hard to make a record; but such an not happen again for a century. The