



THE CITY OF LISBON, FROM THE TAGUS.

CHAPTER I.

ENGLAND TO LISBON AND GIBRALTAR.

H.M.S. *Challenger* commissioned at Sheerness—Objects of the voyage—Equipment and fittings—Leave Sheerness—The stormy passage—Arrive at Portsmouth—Commencement of the voyage—Leaving England—Weather in the Channel—Across the Bay of Biscay—First sounding and dredging—The results—Land in sight—Enter the Tagus—Anchor off the city of Lisbon—Visit the shore—Sight-seeing—Church at Belem—Churches, gardens, and palaces—Early history of Portugal—Visit of King Luiz to the *Challenger*—Leave Lisbon—Dredging off Cape St. Vincent—First trial with the trawl—Venus's flower-baskets—Description—Trawling near Gibraltar—Obtain specimens of the Umbellularia—Their description—Pass Cape Trafalgar—Rock of Gibraltar in sight—Arrive, and secure alongside the mole—Sights of Gibraltar—Galleries through the rocks—Stalactite caves—Gibraltar as a military fortress—Ceremony of opening and closing the gates—The naval establishment—The town—Its churches—Garrison library—The Alameda—Neutral Ground—Campa and San Roque.

H.M.S. CHALLENGER was placed in commission at Sheerness, on the 15th November 1872, for the