

pet, at the Ends of which fix strong iron Gudgeons to receive a Frame convenient for the Men to convey it, either to hawl it after, or push it before them; this Frame may have Spikes so hung to it as by their Ends trailing upon the Ground to hinder its running backwards, when pushed or hawled up Hill, or its recoiling when struck by Shot; at each End of the Timber Balk or Beam, fix Spoaks of Iron, like those of a Wheel, to keep the Wrapping regular; then fold the woollen Rope or Plat round the Balk (which should be straight for rolling Parrapets, but crooked and small for those at the Bows of Boats) taking Care to fix Skewers of Wood or Iron in many Places of the Roll, to keep the Wrapping well together, which for further Security, may be at last covered with a strong Netting of hempen Rope.

Rolling Breast-Works of different Forms and Sizes, thus compacted, will answer the different Purposes of stuff'd Gabions, Corbels, Fascines, Earth-Bags, Mantlets, or any other Contrivances for covering the Men from the Enemy's Fire in attacking Fortresses; as will better appear hereafter. They will also, with the help of a light Covering of Tarpaulin, Leather, or other durable Materials, make excellent Rafts, to carry and land any heavy Weight, as Cannon, &c. and may be rendered very fit, if due Care be had to the Covering, for erecting floating Batteries upon them; for if they be kept dry, and not very hard worked, they will swim more than half the Diameter above Water; but great Care must be taken not to let them get thoroughly wet, because then they will only float by the upper Surface, and if twisted or made very solid, will resist Cannon Ball better than any other Materials I know of that will swim.