expatiate further on the many Purpoles to which they are capable of being applied.

CHAP. VI.

Of scaling Ladders.

PRocure the longest Poles that can be got, of two Inches and three Quarters in diameter; Ash is the Wood which is most eligible, but as they should be thirty, or five and thirty Feet in length, which English Ash seldom runs to, clear of Knots, young Fir Trees may serve the Purpose, for Poles sawed out of Timber will not be so proper, as not being so tuff and strong. The middle Part of these Poles ought, as I observed, to be two and three Quarters of an Inch in diameter, but they should be somewhat tapering towards each End; when these Poles are to be converted into Ladders for service, two of them must be set parallel at a proper Distance asunder, and kept so by proper Iron Work that will not damage them; round Loops or Sockets at each End of the Bars, to put on upon the Poles, seem likely to answer this Purpose best, and they may be fastened at the Ends by Skrews. The Steps of these Ladders should be small Ropes, stretched transversly between the Poles, their Height one above another should not exceed one Foot; they might indeed be eighteen Inches Distance, but then a Man must be obliged to give a Spring every Step that he ascends, and this would require a stronger, and consequently a heavier Ladder.

Such a scaling Ladder, wide enough to hold two Men a-breast, and thirty or thirty five Feet long, will admit of six Men upon it at a Time, and the Ladder not weigh much above one Hun-

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