



**Figure 8. Anterior Plate (A-Plate) design.** A-Plates have been designed for intruding or extruding anterior teeth without changing posterior tooth position. A-Plates come in three forms. Type I and Type II are designed primarily for buccal placement, while Type III is suitable for palatal usage (A). When a TAD is used to generate vertical forces, a counter-clockwise moment appears on an individual TAD that may significantly jeopardize its stability. By connecting the tube to the A-Plate, and using it for vertical corrections, these moments translate into unidirectional forces that are easily tolerated by the 2 TADs (B, extrusion of anterior, couple shown as straight red arrows and moment on the TAD showed as dashed red arrow, extrusion force shown as blue arrow). Type III A-plates can be used with a one -couple system design for vertical corrections of anterior teeth (C) without need for fixed appliances.