

Chain return arrangement and sprocket and chain assembly employed therein with the bow flanks of the horizontal chain links (1) of the chain assembly (10) exhibiting a concave trough at least below an equatorial line (7) and the chain link pockets (52) of the sprocket (50) that receive the horizontal chain links at their tooth flanks (53) in the contact areas (55) to the chain links (1) having a convex crown shape to match the troughed bow flank. This significantly reduces the surface pressures between the two parts.