Fin/Pipe Riveting

Heat pipe/fin riveting process can eliminate toxic materials or processing such as Ni-plating, solder paste, and SMT furnace,... etc . Not only save cost greatly , but also improve production throughput and yield significantly. Riveted pipe/ fin interface is intimate ,therefore has very good heat transfer efficiency(Fig. A). Round pipe can be punch through the central of fin (Fig. B) or riveted on fin surface (Fig. C). Flattened pipe can be either punch through the central of fin (Fig. D), riveted on fin surface (Fig. E), or slide-riveted from the fin side direction (Fig. F). Heat pipe/fin riveting process is most frequently used in various solderless heatsinks, like NB with small fin (Fig. G), workstation with middle size fin (Fig. H), or telecom base station with big fin (Fig. I).