

Abstract**Lubrication-free piece or part for a railroad device**

The invention relates to a piece comprising a friction surface (4) that rubs against a second surface, said piece comprising at least one structure (1) made from spheroidal graphite cast iron or steel, the external surface (4) of the piece including at least one layer (3) of lubricating thermoplastic polymers, characterised in that the piece comprises a nickel/aluminium-based intermediary layer (2) between the spheroidal graphite cast iron or steel structure (1) and the layer (3) of lubricating thermoplastic polymers.

Figure 1