

Title (en)
Solenoid

Title (de)
Solenoid

Title (fr)
Solénoïde

Publication
EP 0907189 A1 19990407 (EN)

Application
EP 97307775 A 19971002

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Abstract (en)
A solenoid including a winding (10), a yoke shell (20), a tubular sliding track (30), a fixed iron core (40), and a movable iron core(50) with the winding (10) comprising a reel (12) and an enamelled wire (11) wound round the reel, the yoke shell (20) defining a holding space which holds the winding on the inside, the tubular sliding track (30) being fixedly mounted in a longitudinal central through hole of the reel (12) of the winding, the tubular sliding track(30) having a first end (31), a second end (33) and a longitudinal sliding hole (30) extending between the first and second ends, the fixed iron core (40) being fixedly mounted in the first end (31) of the tubular sliding track, and the movable iron core(50) being movable in the longitudinal sliding hole (32) and partially projecting out of the second end (33) of the tubular sliding track, is characterised in that the movable iron core (50) is integrally made by forging and has an exhaust groove (54). Preferably the movable iron core (50) is integrally made and comprises a body portion (52), a head portion (51) and a raised peripheral collar (53) between the head and body portions, the exhaust groove (54) being in the body portion (52). The yoke shell(20) may comprise a yoke tube (21) having one integral threaded head cap (22) at one end and a bottom cap (23) at the opposite end which may be integral with the fixed iron core (40). <IMAGE>

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Citation (search report)

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