

Title (en)
Stopper rod

Title (de)
Stopfenstange

Title (fr)
Quenouille

Publication
EP 1110646 B1 20031105 (DE)

Application
EP 00117590 A 20000816

Priority
DE 19963147 A 19991224

Abstract (en)
[origin: DE19963147C1] Stopper comprises a cylindrical stopper body (10) formed on a base part (12) for receiving a guiding rod and having a nose-like section (14) on its free end. A boundary surface (18) extends between the nose-like section and the base part over the whole cross-section of the stopper body. The nose-like section is made of a refractory material containing less than 10 wt.% carbon and whose carbon content bakes above 900 deg C in a region near the surface. The base part consists of a refractory material having a carbon content of more than 20 wt.%.

IPC 1-7
B22D 41/18

IPC 8 full level
B22D 41/18 (2006.01)

CPC (source: EP US)
B22D 41/18 (2013.01 - EP US); **Y10T 428/30** (2015.01 - EP US)

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US 73442200 A 20001211; AT 00117590 T 20000816; DE 19963147 A 19991224; DE 50004315 T 20000816; EP 00117590 A 20000816; ES 00117590 T 20000816