Title (en)
OXYGEN BLAST PIPE

Publication
EP 0364722 B1 19930512 (FR)

Application
EP 89116608 A 19890908

Priority
LU 87353 A 19880928

Abstract (en)
[origin: EP0364722A1] Lance for injecting refining oxygen from above into baths of metals or of ferrous alloys contained in metallurgical vessels. In its end part the lance comprises a Laval tuyere defining in the direction of flow of the gas firstly a converging region, then a cylindrical throat and finally a diverging region. It further comprises a substantially cylindrical movable central regulating body which can be moved forward or back axially in the neck region of the Laval tuyere. The nose of the central regulating body has a special profile which, together with the outer coaxial cylindrical wall of the Laval tuyere, defines a diverging region which causes an expansion of the gas stream. The profile of the nose of the movable central body and that of the converging portion of the Laval tuyere are at least approximately complementary. The characteristics of the gas stream are modified through changing its flow profile by axial movement of the nose of the central regulating body. <IMAGE>

IPC 1-7
C21C 5/46

IPC 8 full level
C21C 5/46 (2006.01); C21C 7/072 (2006.01)

CPC (source: EP US)
C21C 5/4606 (2013.01 - EP US)

Cited by
EP0539683A1; US5303901A; EP0490101A1; AU644486B2

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