

Title (en)
Cutting nozzle for iron and steel processing.

Title (de)
Schneiddüse für die Eisenverarbeitung.

Title (fr)
Buse de coupe sidérurgique.

Publication
EP 0378461 A1 19900718 (FR)

Application
EP 90400045 A 19900108

Priority
FR 8900199 A 19890110

Abstract (en)
[origin: JPH02247080A] PURPOSE: To restrict the number of parts to be exchanged by combining a torch main body with at least a specified number of insert bodies. CONSTITUTION: A torch main body 2 is combined with at least one set of insert bodies consisting of three pieces i.e., a cutting insert body 63, a second insert body 64 or an insert body 65 which is formed into a heating nozzle shape. The cutting insert body 63 is screwed into housing places 57-59, and cutting oxygen is fed by an axial center conduit 66 through a conduit 38 or conduits 38, 37. A countersink 69 exists around the axial center conduit 66, and an annularly arranged ring conduit 69, which is connected to a chamber of a fuel mixture defined by an annular passage 55 at an upstream place, is defined by the countersink. The heating nozzle 65 is provided with an axial center conduit 72 which is radially opened through a conduit 73 to a passage which defines a seal packing 71 and a chamber distributing oxygen at the time of being assembled. Oxygen is used as heating oxygen for a head part having a large diameter which increases until reaching a conduit 76 in the longitudinal direction.

Abstract (fr)
L'invention concerne une buse de coupe sidérurgique qui présente deux conduits (37,38) d'oxygène de coupe, se terminant en deux logements (56,58) et (57,59) de réception soit de deux inserts de coupe (63,64), soit d'une busette de chauffe (65) puis d'un insert de coupe (63). On réalise ainsi une buse qui peut être transformée très rapidement en une buse de coupe à forte puissance de chauffe et jet de coupe unique, ou en une buse de coupe à forte vitesse de coupe avec deux inserts de coupe.

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F23D 14/54

IPC 8 full level
B23K 7/10 (2006.01); **F23D 14/54** (2006.01)

CPC (source: EP US)
F23D 14/54 (2013.01 - EP US)

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• [A] US 2302734 A 19421124 - BABCOCK ROGER S

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