

Title (en)
SHORT TIP FOR FLAME CUTTING OR FLAME PRIMING

Publication
EP 0103651 B1 19870325 (DE)

Application
EP 82108584 A 19820917

Priority
EP 82108584 A 19820917

Abstract (en)
[origin: EP0103651A1] 1. A round or flat tip for flame cutting or flame scarfing articles or the like, the tip having a feed duct (2 in Fig. 1 ; 2' in Fig. 2) for the cutting or flame oxygen and at least one ring, preferably two rings disposed symmetrically of the central axis or central plane of the feed duct (2 in Fig. 1 ; 2' in Fig. 2) or rows on both sides of heating mixing bores (7 in Fig. 1 ; 7' in Fig. 2), metering bores (10 and 6 in Fig. 1 ; 10' and 6' in Fig. 2) extending from distribution ducts (3 and 4 respectively in Fig. 1 ; 3' and 4' respectively in Fig. 2) for heating gas and heating oxygen, the latter ducts being annular or extending on each side of the tip respectively, the latter bores beginning with a metering cross-section and extending by way of a mixing cross-section into the heating mixing bores (7, 11 respectively in Fig. 1 ; 7', 11' in Fig. 2), characterized in that the feed duct has an entry part (14 in Fig. 1 ; 14' in Fig. 2) merging by way of a sharp abrupt and substantially transition free narrowing in a central part (15 in Fig. 1 ; 15' in Fig. 2) to a metering cross-section (15 in Fig. 1, 15' in Fig. 2) of from 1 to 4 mm in diameter or height, respectively, and of a reduced length of less than 10 mm, the central part merging into an exit part (16 in Fig. 1 ; 16' in Fig. 2) having a uniform (angle beta) or multistep widening to an exit width of from 2 to 6 mm.

IPC 1-7
F23D 14/22

IPC 8 full level
F23D 14/54 (2006.01)

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

Citation (examination)
DE 2547475 A1 19770505 - IPU LTD

Cited by
EP0255430A1; FR2602309A1; US4821963A; AU592465B2; WO8902051A1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0103651 A1 19840328; EP 0103651 B1 19870325; AT E26165 T1 19870415; DE 3275858 D1 19870430

DOCDB simple family (application)
EP 82108584 A 19820917; AT 82108584 T 19820917; DE 3275858 T 19820917