

Title (en)  
IMPROVED MOLTEN METAL CHARGE WELL

Title (de)  
CHARGIERÖFFNUNG FÜR SCHMELZE

Title (fr)  
PUITS AMELIORE SERVANT AU CHARGEMENT DU METAL EN FUSION

Publication  
**EP 0874704 A4 19990714 (EN)**

Application  
**EP 97903843 A 19970117**

Priority  
• US 9700775 W 19970117  
• US 1010396 P 19960117

Abstract (en)  
[origin: WO9726101A1] In a charge well (C) for adding scrap metal pieces or particles to a molten metal bath, a stationary diverter (20) is provided in the charge well (C) for diverting the circular flow of molten metal, caused by orientation of the inlet port (14), in a downward direction, thereby creating a downward flow of molten metal which results in quick and efficient submergence of incoming lightweight scrap metal pieces or particles. Preferably, the diverter (20) includes a leading edge (22) which extends in a generally radial direction within the charge well (C) and a flat top (24) which tapers from the leading edge (22) to a point or narrowed trailing edge. A downward curver surface (28) extends from the leading edge (22) to facilitate the downward flow of molten metal.

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**B22D 41/08**

IPC 8 full level  
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CPC (source: EP)  
**F27B 3/18** (2013.01); **F27D 3/14** (2013.01)

Citation (search report)  
• [AD] US 4598899 A 19860708 - COOPER PAUL V [US]  
• [AD] US 4322245 A 19820330 - CLAXTON RAYMOND J  
• [Y] US 4286985 A 19810901 - VAN LINDEN JAN H L, et al  
• [Y] EP 0030220 A2 19810610 - UNION CARBIDE CORP [US]  
• [A] US 4747583 A 19880531 - GORDON ELIOTT B [US], et al  
• See references of WO 9726101A1

Designated contracting state (EPC)  
DE FR GB IT

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