

Title (en)  
Device for melting metal ingots.

Title (de)  
Einrichtung zum Schmelzen von Metallblöcken.

Title (fr)  
Installation pour la fusion de lingots de métal.

Publication  
**EP 0120776 A1 19841003 (FR)**

Application  
**EP 84400566 A 19840320**

Priority  
FR 8304603 A 19830321

Abstract (en)  
1. A device for melting metal ingots, comprising a melting furnace (3), a float (5) for detecting variations in the level of the bath of molten metal in the furnace and a mechanism actuated by the float for controlling the progressive descent of the metal ingot into the bath, which device is characterized in that it comprises a rail (1) from which a plurality of metal ingots (2) can be suspended one after the other, said rail being inclined towards the surface (41) of the bath (4), in such a way that its lower end (11) is situated above the surface of the bath and in such a way that the ingots (2) slide on the rail by their own weight towards said lower end, a means (11) for retaining the ingots at the lower end of the rail and capable of delivering, when actuated, the first of the ingots adjacent to the lower end of the rail, a means (10) for hooking the ingot delivered by the retaining means (1) and being displaceable between a high position, for which it is situated in a position adjacent to the lower end of the rail, and a low position, for which it is situated at a slight distance from the surface of the bath said hooking means being moveable from its high position to its low position by the mechanism (6, 7, 8) actuated by the float (5).

Abstract (fr)  
a) Installation pour la fusion de lingots de métal; b) installation caractérisée en ce qu'elle comporte un rail (1) sur le quel sont susceptibles d'être suspendus, l'un derrière l'autre, plusieurs lingots (2) de métal, ce rail étant incliné vers la surface (41) du bain (4), de façon que son extrémité inférieure (11) soit située au-dessus de la surface du bain et de façon que les lingots (2) glissent sur le rail par leur propre poids vers cette extrémité inférieure; caractérisée en ce qu'un moyen d'accrochage est commandé en déplacement de sa position haute vers sa position basse par le mécanisme (6, 7, 8) et actionné par le flotteur (5); c) l'invention s'applique à l'alimentation en continu de lingots de métal dans un four de fusion, et évite les accidents corporels.

IPC 1-7  
**F27D 3/00**

IPC 8 full level  
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CPC (source: EP)  
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Citation (search report)  
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• [Y] US 2245275 A 19410610 - JUNG ALBERT H, et al  
• [Y] DE 1258555 B 19680111 - VOLKSWAGENWERK AG  
• [A] FR 720562 A 19320222 - ELEKTRONMETAL G M B H  
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**EP 0120776 A1 19841003; EP 0120776 B1 19870909**; AT E29580 T1 19870915; DE 3466060 D1 19871015; FR 2543163 A1 19840928

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**EP 84400566 A 19840320**; AT 84400566 T 19840320; DE 3466060 T 19840320; FR 8304603 A 19830321