

Title (en)  
CHARGING DEVICE FOR A HEAT TREATMENT FURNACE

Publication  
**EP 0171577 A3 19880831 (DE)**

Application  
**EP 85108269 A 19850704**

Priority  
DE 3430118 A 19840816

Abstract (en)  
[origin: US4601660A] There is described a loading apparatus for conveying charging grates in heat treatment furnaces has one or more chain strands which run in guide rails which also extend into the heat treatment furnace; at the end of the chain strands facing toward the furnace, the chain links have pivoting rocker arms on which there are secured support segments; the raising and lowering of the support segments is carried out by means of support blocks and retaining cams.

IPC 1-7  
**F27D 3/00**; **F27B 9/38**

IPC 8 full level  
**F27B 9/20** (2006.01); **F27B 9/24** (2006.01); **F27B 9/38** (2006.01); **F27D 3/00** (2006.01); **F27D 3/06** (2006.01)

CPC (source: EP US)  
**F27B 9/243** (2013.01 - EP US)

Citation (search report)

- GB 1175786 A 19691223 - KNAUST HERBERT [DE], et al
- DE 1020358 C
- DE 1095304 B 19601222 - HAROLD NORREGAARD IPSEN

Cited by  
FR2611878A1; EP0352390A1; CN102955443A

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

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**EP 0171577 A2 19860219**; **EP 0171577 A3 19880831**; **EP 0171577 B1 19900912**; AT E56532 T1 19900915; BR 8503853 A 19860527; CS 276714 B6 19920812; CS 592585 A3 19920318; DE 3430118 C1 19860109; DE 3579646 D1 19901018; JP S6159179 A 19860326; PL 142090 B1 19870930; PL 254158 A1 19860520; SU 1424743 A3 19880915; US 4601660 A 19860722

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