

Title (en)  
Grate element for a grate cooler

Title (de)  
Rostelement für einen Kühlrost

Title (fr)  
Élément de grille pour un refroidisseur à grille

Publication  
**EP 2645034 A1 20131002 (EN)**

Application  
**EP 12161886 A 20120328**

Priority  
EP 12161886 A 20120328

Abstract (en)  
A grate element 10 for a grate cooler for cooling and transporting bulk material in a forward direction, wherein the grate element 10 has at least a box like support structure 20 for an upside facing rest for supporting the bulk material and which has a corner steel like front element 50 being supported by the support structure 20 and comprising a front leg 52 and a top leg 51, wherein the front leg 52 covers a front side of the support structure 20 at least partly and the top leg 51 is positioned on top of the support structure 20 as a part of the rest, may be mounted in simple but reliable manner if the support structure 20 has at least one recess 63 and the front element 50 has at least one protrusion 53 engaging into the recess 63, thereby interlocking the front element 50 against translation in at least a forward direction relative to the grate element 10.

IPC 8 full level  
**F27B 3/06** (2006.01); **F27B 9/20** (2006.01); **F27D 15/02** (2006.01)

CPC (source: EP)  
**F27B 3/06** (2013.01); **F27B 9/203** (2013.01); **F27D 15/022** (2013.01)

Citation (applicant)  
• US 5862906 A 19990126 - VON WEDEL KARL [DE]  
• US 2010206288 A1 20100819 - VAN DIEPEN NICOLAAS [DE], et al

Citation (search report)  
• [X] US 7021928 B1 20060404 - FEHSENMAYR THEO [DE], et al  
• [A] WO 2011151130 A1 20111208 - MAGOTTEAUX INT [BE], et al

Cited by  
EP2843342A1; EP3048369A1; CN107110499A; JP2017538095A; US9605902B2; US10139105B2; WO2015028217A1; WO2016120170A1; EP3112786A1; US10401089B2; EP2843342B1; EP3112786B1; EP3112786B2

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