

Title (en)  
HEAT EXCHANGING UNIT FOR PREHEATING CRUDE CEMENT POWDER

Publication  
**EP 0038314 B1 19830921 (DE)**

Application  
**EP 81890016 A 19810127**

Priority  
AT 193480 A 19800410

Abstract (en)  
[origin: EP0038314A1] 1. A heat-exchanger unit for preheating ground raw material for making cement, comprising a riser pipe (9, 11) which receives a hot gas stream and serves as a mixing chamber (20) for mixing the hot gas stream with the ground raw material, which is supplied by a supply duct (22), said pipe opening into a cyclone dust-collector (10, 12), which is provided at its top with a discharge duct, preferably an immersed pipe (23), for delivering the hot gas stream from which most of the ground raw material has been removed, and is provided at the bottom with a duct for the discharge of the ground raw material which has been collected, characterized in that the riser pipe (9, 11) constitutes a diffuser (21), which adjoins the mixing chamber (20) at its top and transforms the hot gas stream into a laminar stream.

IPC 1-7  
**C04B 7/44**; **F28C 3/10**; **B04C 5/00**

IPC 8 full level  
**B04C 5/12** (2006.01); **B04C 5/30** (2006.01); **F26B 17/10** (2006.01); **F27B 7/20** (2006.01)

CPC (source: EP)  
**B04C 5/12** (2013.01); **B04C 5/30** (2013.01); **F26B 17/102** (2013.01); **F27B 7/2033** (2013.01)

Citation (examination)  
• DE 1272324 B 19680711 - YUKIO NOGIWA  
• DE 1508576 A1 19691030 - KLOECKNER HUMBOLDT DEUTZ AG

Cited by  
WO2017191242A1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0038314 A1 19811021**; **EP 0038314 B1 19830921**; AT 364303 B 19811012; AT A193480 A 19810215; DE 3160897 D1 19831027; DK 160281 A 19811011

DOCDB simple family (application)  
**EP 81890016 A 19810127**; AT 193480 A 19800410; DE 3160897 T 19810127; DK 160281 A 19810409