

Title (en)  
Mixing apparatus.

Title (de)  
Statische Mischvorrichtung.

Title (fr)  
Appareil mélangeur statique.

Publication  
**EP 0060046 A1 19820915 (EN)**

Application  
**EP 82300882 A 19820222**

Priority  
• US 23981581 A 19810302  
• US 25098881 A 19810403  
• US 26895781 A 19810601

Abstract (en)  
Apparatus is provided for blending batches of particulate material that are compositionally heterogeneous into batches of material that are compositionally uniform. The apparatus consists of two or more cylindrical static mixers, each mixer being substantially identical in volumetric capacity and construction. Each mixer contains six or more vertically aligned partition walls (31-36) that extend radially from the midpoint (37) of the mixer to the wall to divide the mixer into at least six storage compartments of substantially equal volumetric capacity. The vertical partition walls (31-36) differ in height in a regular descending order so that as material is charged to and fills one compartment, it overflows the shorter wall to fill the adjacent compartment. One embodiment includes means for feeding particulate material successively through each of the static mixers. A second embodiment includes means for simultaneously discharging lots of particulate material from each of the mixers at a substantially uniform rate into a common conveying means.

IPC 1-7  
**B01F 5/24**; **B29B 1/04**; **B29B 1/06**

IPC 8 full level  
**B01F 5/24** (2006.01); **B01F 13/00** (2006.01); **B65D 88/28** (2006.01)

CPC (source: EP)  
**B01F 25/822** (2022.01); **B01F 25/84** (2022.01); **B01F 33/26** (2022.01); **B65D 88/28** (2013.01)

Citation (search report)  
• DE 2645616 A1 19770421 - ICI LTD  
• US 3414164 A 19681203 - MCKAY STEPHEN A  
• US 3462130 A 19690819 - SCHMIDT-HOLTHAUSEN HANS-JOACHIM [DE], et al  
• DE 2417990 A1 19741024 - AQUITAINE TOTAL ORGANICO COURB  
• US 3814386 A 19740604 - GUGLIETTI H  
• DE 2659405 B2 19800529 - PHILLIPS PETROLEUM CO

Cited by  
FR2558387A1; EP3170737A4; EP0521337A1; DE10332233A1; DE10332233B4; GB2254798A; DE4112884A1; US5248197A; GB2254798B; EP2497565A1; US9028132B2; KR101140979B1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**EP 0060046 A1 19820915**; CA 1170649 A 19840710

DOCDB simple family (application)  
**EP 82300882 A 19820222**; CA 397271 A 19820301