

Title (en)
Cluster mill

Title (de)
Vielwalzengerüst

Title (fr)
Laminoir à cylindres multiples

Publication
EP 1033183 A3 20020529 (DE)

Application
EP 99105914 A 19990324

Priority
• DE 19910341 A 19990309
• DE 19858021 A 19981215

Abstract (en)
[origin: EP1033183A2] Cluster mill has two working rolls (19-20) each connected to an intermediate roll and a support roll. The rolls (1-20) and the rolls (A-J) form a 30 roll system.

IPC 1-7
B21B 13/14

IPC 8 full level
B21B 13/14 (2006.01); **B21B 13/00** (2006.01)

CPC (source: EP)
B21B 13/147 (2013.01); **B21B 13/001** (2013.01)

Citation (search report)
• [A] EP 0665067 A1 19950802 - FROEHLING JOSEF GMBH [DE]
• [A] US 4197731 A 19800415 - TURLEY JOHN W [US], et al
• [A] GUILLERAULT J P: "Les cages multicylindres", REVUE DE METALLURGIE, vol. 85, no. 2, February 1988 (1988-02-01), REVUE DE METALLURGIE, PARIS, FR, pages 141 - 152, XP002194477

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1033183 A2 20000906; EP 1033183 A3 20020529

DOCDB simple family (application)
EP 99105914 A 19990324