

Title (en)  
RESINOID GRINDING WHEEL

Title (de)  
HARZGEBUNDENE SCHLEIFSCHEIBE

Title (fr)  
MEULE RESINOIDE

Publication  
**EP 0963813 A4 20030813 (EN)**

Application  
**EP 98955931 A 19981125**

Priority  
• JP 9805312 W 19981125  
• JP 34410197 A 19971128

Abstract (en)  
[origin: EP0963813A1] A resinoid grinding wheel of the present invention has low grinding resistance and is capable of providing a ground workpiece excellent in ground surface quality without burn mark while maintaining essential properties of the resinoid grinding wheel such as low elastic modulus and strong force for holding abrasive grains. A typical resinoid grinding wheel of the present invention includes 25 parts by volume of Al<sub>2</sub>O<sub>3</sub> abrasive grains with grain size of #150, 20 parts by volume of organic hollow material with average particle diameter of 80  $\mu$ m, and 10 parts by volume of pores having 1 mm in size. They are all dispersed in 40 parts by weight of a bond made of cured epoxy resin.

IPC 1-7  
**B24D 3/02**; **B24D 3/32**; **B24D 3/34**

IPC 8 full level  
**B24D 3/02** (2006.01); **B24D 3/32** (2006.01); **B24D 3/34** (2006.01); **B24D 7/02** (2006.01); **C08J 5/14** (2006.01); **C09K 3/14** (2006.01)

CPC (source: EP)  
**B24D 3/32** (2013.01); **B24D 3/344** (2013.01); **B24D 7/02** (2013.01)

Citation (search report)  
• [X] US 2806772 A 19570917 - ROBIE NORMAN P  
• [X] US 3502453 A 19700324 - BARATTO EUGENE L  
• [X] US 5110322 A 19920505 - NARAYANAN KESH S [US], et al  
• [A] US 4226602 A 19801007 - FUKUDA HEIJIRO  
• See references of WO 9928086A1

Cited by  
CN109968221A; US8784519B2; US9266220B2; US8771390B2; US9409279B2; US9138866B2; WO0185394A1

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**EP 0963813 A1 19991215**; **EP 0963813 A4 20030813**; JP 3539854 B2 20040707; JP H11156725 A 19990615; WO 9928086 A1 19990610

DOCDB simple family (application)  
**EP 98955931 A 19981125**; JP 34410197 A 19971128; JP 9805312 W 19981125