Title (en)

SLIPPABLE ROLLER CONVEYOR FOR CLEAN ROOMS

Title (de)

GLEITENDE ROLLENFÖRDERER FÜR REINRÄUME

Title (fr)

TRANSPORTEUR A ROULEAUX A GLISSEMENT POUR LOCAUX STERILES

Publication

EP 1042191 A4 20020327 (EN)

Application

EP 98933200 A 19980707

Priority

- JP 18087097 A 19970707
- US 9814013 W 19980707

Abstract (en)

[origin: WO9902435A1] A powered conveyor (20, 120, 220) for use in a clean room environment. Objects are moved by slippable rollers (52, 152) on roller shafts (50, 150). The roller shafts (150) are driven by chain (34) and sprocket (46, 48) or by belt (224, 228) and pulley (222, 246). The driving mechanisms are contained within an enclosed volume (29, 129, 229). There is a roller shaft seal (70, 72) that retains particulate matter within the enclosure and inhibits the flow of air into the enclosure. An evacuator (30) removes air and particulates from the enclosure. The roller shafts (50) may extend across the width of the moving surface path (53), or across only a portion of the path.

IPC 1-7

B65G 13/06; B65G 13/02; B65G 13/07; B65G 49/00

IPC 8 full level

B65G 23/08 (2006.01); **B65G 13/02** (2006.01); **B65G 13/07** (2006.01); **B65G 39/04** (2006.01); **B65G 39/09** (2006.01); **B65G 49/00** (2006.01); **F24F 7/06** (2006.01)

CPC (source: EP)

B65G 13/07 (2013.01)

Citation (search report)

- [X] JP H0952607 A 19970225 - YATSU KOBO KK
- [XP] WO 9813282 A1 19980402 - SHUTTLEWORTH INC [US], et al
- [A] US 4821866 A 19890418 - MELGAARD HANS L [US]
- [A] US 3951255 A 19760420 - SHUTTLEWORTH JAMES J, et al
- See also references of WO 9902435A1

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)

WO 9902435 A1 19990121; AU 8291298 A 19990208; EP 1042191 A1 20001011; EP 1042191 A4 20020327; JP 3061595 B2 20000710; JP H1135129 A 19990209; MY 125140 A 20060731; TW 385277 B 20000321

DOCDB simple family (application)

US 9814013 W 19980707; AU 8291298 A 19980707; EP 98933200 A 19980707; JP 18087097 A 19970707; MY PI19983052 A 19980703; TW 87110932 A 19980707