

Title (en)  
Tongue and groove connection for panels

Title (de)  
Nut-Feder-Verbindung für Paneele

Title (fr)  
Connexion par rainure et languette pour panneaux

Publication  
**EP 1203854 A3 20021204 (DE)**

Application  
**EP 01126104 A 20011102**

Priority  
DE 20018760 U 20001102

Abstract (en)  
[origin: EP1203854A2] The tongue and groove connection is for panels (1,2), particularly floor panels, such as laminate floors, parquet floors, veneer floors, or cork panels and is provided on at least two opposing panel face surfaces (10,20). It incorporates a securing contour (14,24) for counterpoised, positive engagement of two connected panels. On the one side of the connection is provided a double groove with two parallel grooves (21,22) separated by a rib (23). On the other side of the connection is a double tongue with two parallel tongues (11,12) separated by an intermediate space (13). The securing contour is provided singly on the one of the two grooves and the corresponding tongue or doubled on the two grooves and the two tongues.

IPC 1-7  
**E04F 15/02**; **E04F 15/04**

IPC 8 full level  
**E04F 13/08** (2006.01); **E04F 15/02** (2006.01); **E04F 15/04** (2006.01)

CPC (source: EP)  
**E04F 13/08** (2013.01); **E04F 15/02** (2013.01); **E04F 2201/0115** (2013.01); **E04F 2201/02** (2013.01); **E04F 2201/041** (2013.01)

Citation (search report)  
• [A] DE 3933108 A1 19910418 - GRASER WOLFGANG [DE]  
• [A] DE 19503948 A1 19960808 - BUB FRANK MARTIN [DE]  
• [A] US 5295341 A 19940322 - KAJIWARA MATSUJI [US]

Cited by  
US6772568B2; EP1516977A1; EP1369347A1; WO2004001156A1; US7624552B2; US6968663B2; US6968664B2; US7093399B2; US7343717B2; US7721504B2; US7779597B2; US8438814B2; US9624676B2; US9856657B2; US10125498B2; US10407920B2

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