

Title (en)

Flooring system comprising mechanically joinable floorboards

Title (de)

Fussbodensystem, das mehrere mechanisch verbindbare Fussbodenplatten umfasst

Title (fr)

Système de plancher comprenant des planches de plancher assemblables mécaniquement

Publication

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Application

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Abstract (en)

In a locking system for mechanical joining of floorboards having a core (30) and opposite joint edge portions (4a, 4b), one being formed as a tongue groove (36) defined by upper (39) and lower (40) lips and a bottom end (48), the other being formed as a tongue (38) with an upwardly directed portion (8) at its free outer end (69), the tongue groove (36) having the shape of an undercut groove with an opening, an inner portion (35) and an inner locking surface (45), and at least parts of the lower lip (40) being formed integrally with the core (30) of the floorboard, and the tongue (38) having a locking surface (65) which is formed to coact with the inner locking surface (45) of an adjoining floorboard, it is foreseen that the inner locking surface (45) is formed on the upper lip (39) within the inner portion (35) for coaction with the locking surface (65) of the tongue, said locking surface being formed on the upwardly directed portion (8) to counteract pulling-apart of two boards in a horizontal plane, that the lower lip (40) has a supporting surface (50) for coaction with a supporting surface (71) on the tongue, said supporting surface being intended to coact to counteract a relative displacement of two boards in a vertical plane, that all parts of the portions of the lower lip (40) which are connected with the core (30) are located outside a plane (LP2) which is positioned further away from the joint than a locking plane (LP1) which is parallel therewith and which is tangent to the coacting locking surfaces (45, 65) where these are most inclined relative to the surface plane (HP), that all parts of the portions of the lower lip (40) connected with the core (30) are shorter than the upper lip (39) and terminate at a distance from the joint plane (VP), that the lower lip (40) is flexible, the upper lip (39) being relatively more rigid, that the supporting surface (50) is positioned at a distance from, and closer to the joint plane (VP) than the inner part (47) of the undercut groove, and that the upper and lower lips of the joint edge portions (4a, 4b) enable connection of a laid floorboard with a new floorboard by a pushing-together motion with one floorboard in a slightly upwardly angled position for snapping together the parts of the locking system during downward bending of the lower lip (40) of the tongue groove, and that the locking element formed by the upwardly directed portion (8) and the locking groove formed by the undercut groove are provided with guiding parts (66, 44), cooperating during said pushing together motion.

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