Title (en)

CONTINUOUS PLATFORM CUTTING APPARATUS AND METHOD

Title (de)

VORRICHTUNG UND VERFAHREN ZUM KONTINUIERLICHEN PLATTFORMSCHNEIDEN

Title (fr)

APPAREIL DE DECOUPE A PLATE-FORME CONTINUE ET PROCEDE

Publication

EP 1305148 B1 20060208 (EN)

Application

EP 00950798 A 20000728

Priority

US 0020505 W 20000728

Abstract (en)

[origin: WO0209915A1] An apparatus and method for shaping a slab of compressible or cellular polymer material (80), such as polyurethane foam, cuts portions of the material from one surface of the slab. A moving patterned platform (32), preferably an endless belt or a series of interconnected panels, is interposed in a predetermined gap formed between a compression roller (56) and a drive roller (18) and defines at least one recess (36) or at least one projection (320) or a combination of recesses and projections. When the slab is compressed between the compression roller and the platform, a portion of the material fills the recess or recesses in the moving platform. At least a portion of the compressed material within the recess(es) is then cut from the surface of the slab by a blade (76) just as the slab emerges from between the compression roller and the platform, leaving a profile-cut surface with cut-out portion(s) corresponding in pattern and shape to the recess(es) provided in the moving patterned platform. Alternatively, a portion of the material is forced away from the blade (76) by the projection or projections (320) so that a portion of compressed material is not cut by the blade (76).

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