

Title (en)

Method, apparatus and forming roll for forming material with a bidirectional periodicity.

Title (de)

Verfahren, Vorrichtung und Formrolle zum Formen von Material mit Zweirichtungsperiodizität.

Title (fr)

Procédé, appareil et rouleau de formage pour travailler du matériau avec une périodicité bidirectionnelle.

Publication

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Application

**EP 82302655 A 19820524**

Priority

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Abstract (en)

A sheet material (6) is passed between a pair of forming rolls (7, 8) having working surfaces with forming teeth of a wave-shape which has a periodicity within two mutually perpendicular sections. The rolls are constructed from elements in the form of helical spur gears (3) keyed on a common shaft (5) and may be interspersed with straight spur gears (4). This permits the continuous formation of a structural material having a bidirectional periodicity, that is a material (1) having a wave-form construction within each of two mutually perpendicular sections. The pitch of the wave-form can be altered by changing the depth of action between the rolls. Such bidirectional material can have a structural performance comparable with that of a honeycomb sandwich material and has many other uses.

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