

Title (en)

Process for densifying low density woods.

Title (de)

Verfahren zur Verdichtung von Hölzern mit niedriger Dichte.

Title (fr)

Procédé pour densifier des bois de basse densité.

Publication

**EP 0197674 A1 19861015 (EN)**

Application

**EP 86301862 A 19860314**

Priority

CA 476650 A 19850315

Abstract (en)

Low quality, low density woods are densified to form wood products having the characteristics of high quality natural hardwoods. A green solid wood member having a high moisture content is impregnated with anhydrous ammonia to plasticize the wood into a sponge-like form saturated with water and ammonia. This plasticized wood member is placed between press plates of a cyclic press and, while maintaining the temperature of the wood below 100 DEG C, it is subjected to a plurality of low pressure compression cycles each of about 1/2 to 1 minute duration with the wood being compressed to a predetermined thickness of up to 50% less than its original thickness. It is held at the reduced thickness for a short time and released during each cycle, whereby water and ammonia are squeezed out of the wood down to a moisture content of less than about 30%. The damp wood member of reduced thickness thus obtained is then dried to obtain a kiln dried, densified solid wood product. This method may be used to densify wood planks, pre-glued laminates and thin veneers. For veneers, a simpler pressing system and higher temperatures may be used.

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CPC (source: EP)

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Citation (search report)

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- [A] GB 1261686 A 19720126 - NESTE OY [FI]
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