

## ECLA EUROPEAN CLASSIFICATION

<b>B27K</b>	<b>PROCESSES, APPARATUS OR SELECTION OF SUBSTANCES FOR IMPREGNATING, STAINING, DYEING, BLEACHING OF WOOD OR SIMILAR MATERIALS, OR TREATING OF WOOD OR SIMILAR MATERIALS WITH PERMEANT LIQUIDS, NOT OTHERWISE PROVIDED FOR (applying liquids or other fluent materials to surfaces in general B05; coating wood or similar material B44D); CHEMICAL OR PHYSICAL TREATMENT OF CORK, CANE, REED, STRAW OR SIMILAR MATERIALS</b>
<b>B27K1/00</b>	Damping wood
B27K1/02	. Apparatus
<b>B27K3/00</b>	<b>Impregnating wood</b> , [N: e.g. impregnation pretreatment, for example puncturing; Wood impregnation aids not directly involved in the impregnation process] (dyeing, staining <a href="#">B27K5/00</a> )
B27K3/00B	. [N: employing compositions comprising micro-organisms] [N1111]
B27K3/00M	. [N: employing compositions comprising microparticles] [N1111]
B27K3/00N	. [N: employing compositions comprising nanoparticles] [N1111]
B27K3/02	. Processes; Apparatus
B27K3/02A	. . [N: Pretreatment of wood before impregnation] [N1111]
B27K3/02A3	. . . [N: Drying (drying in general F26B)] [N1111]
B27K3/02A7	. . . [N: Pore opening ( <a href="#">B27K3/02A3</a> takes precedence)] [N1111]
B27K3/02B	. . [N: Spraying apparatus, e.g. tunnels]
B27K3/02C	. . [N: Stationary devices on or in legs or poles]
B27K3/02D	. . [N: using melt impregnation] [N1111]
B27K3/02E	. . [N: Controlling the process] [N1111]
B27K3/02F	. . [N: using rods or tablets, or ampoules, e.g. inserted in pre-drilled cavities] [N1111] [C1203]
B27K3/02G	. . [N: using staples or nails] [N1111]
B27K3/02H	. . [N: Vapour phase impregnation] [N1111]
B27K3/02Z	. . [N: involving an additional treatment during or after impregnation] [N1111]
B27K3/02Z1	. . . [N: for improving the penetration of the impregnating fluid] [N1111]
B27K3/02Z3	. . . [N: for improving fixation ( <a href="#">B27K3/02Z1</a> takes precedence)] [N1111]
B27K3/04	. . Impregnating in open tanks
B27K3/06	. . Sap stream methods
B27K3/08	. . Impregnating by pressure, [N: e.g. vacuum impregnation]
B27K3/08L	. . . [N: along the fibers, i.e. longitudinal impregnation] [N1111]

- B27K3/08S . . . [N: using supercritical or high pressure fluids] [N1111]
- B27K3/10 . . . Apparatus
- B27K3/10B . . . . [N: Injection apparatus]
- B27K3/12 . . Impregnating by coating the surface of the wood with an impregnating paste
- B27K3/14 . . Bandage methods
- B27K3/15 . . Impregnating involving polymerisation [N: including use of polymer-containing impregnating agents (macromolecular compounds derived from lignocellulosic materials C08H; compositions of lignin-containing materials C08L97/02)] [C1111]
- [N: **Notes** [C1111]
- 1. When classifying in group [B27K3/15](#), classification is additionally made in the groups of subclass M08L for defining the chemical polymeric structure
- 2. In groups [B27K3/16](#) to [B27K3/50](#), in the absence of an indication to the contrary, impregnating agents are classified in the last appropriate place
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- B27K3/15D . . . [N: Without in-situ polymerisation, condensation, or cross-linking reactions] [N1111]
- B27K3/15G . . . [N: Combined with grafting onto wood fibres] [N1111]
- B27K3/16 . Inorganic impregnating agents
- B27K3/16B . . [N: Compounds of boron] [N1111]
- B27K3/16P . . [N: Compounds of phosphorus] [N1204]
- B27K3/18 . . Compounds of alkaline earth metals
- B27K3/20 . . Compounds of alkali metals or ammonium
- B27K3/22 . . Compounds of zinc or copper
- B27K3/24 . . Compounds of mercury
- B27K3/26 . . Compounds of iron, aluminium, or chromium
- B27K3/28 . . Compounds of arsenic or antimony
- B27K3/30 . . Compounds of fluorine
- B27K3/32 . . Mixtures of different inorganic impregnating agents
- B27K3/34 . Organic impregnating agents [N: (polymers [B27K3/15](#))]
- B27K3/34B . . [N: Heterocyclic compounds]
- B27K3/34G . . [N: Grafting onto wood fibres ([B27K3/15G](#) takes precedence; macromolecular compounds derived from lignocellulosic materials C08H)] [N1111]
- B27K3/36 . . Aliphatic compounds
- B27K3/38 . . Aromatic compounds [N: ([B27K3/34B](#) takes precedence)]
- B27K3/40 . . . halogenated
- B27K3/42 . . . nitrated, or nitrated and halogenated
- B27K3/44 . . Tar; Mineral oil
- B27K3/46 . . . Coal tar
- B27K3/48 . . . Mineral oil
- B27K3/50 . . Mixtures of different organic impregnating agents
- B27K3/52 . Impregnating agents containing mixtures of inorganic and organic compounds
- B27K5/00** **Treating of wood not provided for in groups [B27K1/00](#), [B27K3/00](#)**

- B27K5/00C . [N: Cryogenic treatment] [N1111]
- B27K5/00H . [N: Heating] [N1111]
- B27K5/00K . [N: by electric means] [N1204]
- B27K5/00K2 . . [N: Electric discharges, plasma] [N1204]
- B27K5/00M . [N: by magnetic fields] [N1204]
- B27K5/00R . [N: by using electromagnetic radiation or mechanical waves (infra-red heating of wood [B27K5/00H](#))] [N1111] [C1203]
- B27K5/00R1 . . [N: Electron beam-radiation] [N1111]
- B27K5/00R2 . . [N: Gamma-radiation] [N1111]
- B27K5/00R3 . . [N: X-rays] [N1111]
- B27K5/00R5 . . [N: Laser-light] [N1204]
- B27K5/00R7 . . [N: Radio-waves, e.g. microwaves] [N1111]
- B27K5/00R8 . . [N: Vibrations] [N1204]
- B27K5/00R9 . . [N: Ultrasonic treatment] [N1111]
- B27K5/00S . [N: using pressure ([B27K3/08](#) takes precedence)] [N1111] [C1203]
- B27K5/00S1 . . [N: Vacuum] [N1204]
- B27K5/00S2 . . [N: Supercritical or high pressure fluids] [N1204]
- B27K5/00T . [N: Thermal treatments, i.e. involving chemical modification of wood at temperatures well over 100°C] [N1111]
- B27K5/00T7 . . [N: using a well-defined temperature schedule] [N1111]
- B27K5/00W . [N: by employing wrappers] [N1204]
- B27K5/02 . Staining or dyeing wood [N: (wood staining compositions [C09D15/00](#)); Bleaching wood (bleaching wood pulp [D21C9/10](#)) [C9608]
- B27K5/04 . Combined bleaching or impregnating and drying of wood
- B27K5/06 . Softening or hardening of wood
- B27K5/06H . . [N: Hardening] [N1204]
- B27K7/00**      **Chemical or physical treatment of cork** (mechanical working of cork [B27J5/00](#))
- B27K9/00**      **Chemical or physical treatment of reed, straw, or similar material** (mechanical working of cane or the like [B27J1/00](#))
- B27K9/00B . [N: Cane, bamboo] [N1204]
- B27K9/00R . [N: Reed] [N1204]
- B27K9/00S . [N: Straw] [N1204]