

C14 SKINS; HIDES; PELTS; LEATHER

C14B MECHANICAL TREATMENT OR PROCESSING OF SKINS, HIDES, OR LEATHER IN GENERAL; PELT-SHEARING MACHINES; INTESTINE-SPLITTING MACHINES (making leather substitutes B29, D06N; making articles from leather B68F; mechanical cleaning of hides or the like D06G; artificial leather D06N)

Subclass Index**LEATHER**

Manufacture 1/00, 7/00
 Treatments
 milling; cutting 3/00; 5/00
 finishing 11/00, 13/00
 making belts 9/00
 Apparatus, tools 17/00, 19/00

FURS

Treatments 15/00
 Apparatus, tools 17/00, 19/00
INTESTINES
 Splitting, cutting 21/00
**SUBJECT MATTER NOT PROVIDED FOR
 IN OTHER GROUPS OF THIS SUBCLASS** 99/00

1/00 Manufacture of leather; Machines or devices therefor

- 1/02 . Fleshing, unhairing, samming, stretching-out, setting-out, shaving, splitting, or skiving skins, hides, or leather
- 1/04 . . using slicking, scraping, or smoothing-out cylinders or blades fixed on supports, e.g. cylinders, in a plane substantially at right angles to the working surface
- 1/06 . . . in machines in which the working piece is maintained in contact with the working tools solely by means of rolls
- 1/08 . . . in machines with flexible bands as bed supporting or counter-pressure elements
- 1/10 . . . in machines with drums with cylindrical, conical, or similar surfaces for supporting the whole working piece
- 1/12 . . . in machines with plane supporting bed-plates
- 1/14 . . using tools cutting the skin in a plane substantially parallel to its surface
- 1/16 . . . using fixed or reciprocating or oscillating knives
- 1/18 . . . using band knives
- 1/20 . . . using circular dishd or coned knives
- 1/22 . . . using cylindrical knives
- 1/24 . . Cutting or shearing hairs without cutting the skin (shearing furs or plucking hairs for fur manufacturing purposes C14B 15/02)
- 1/26 . Leather tensioning or stretching frames; Stretching-machines; Setting-out boards; Pasting boards (pasting processes C14B 1/60; fastening devices C14B 17/08)
- 1/28 . Machines for treating leather combined with devices for measuring and printing
- 1/30 . Pressing or rolling leather
- 1/32 . . by linear movement of the pressing elements
- 1/34 . . by rotating movement of the pressing or rolling elements
- 1/36 . . . Bridge leather-rolling machines
- 1/38 . Hammering leather
- 1/40 . Softening or making skins or leather supple, e.g. by staking, boarding, or crippling machines, by dry mills
- 1/42 . . by means of a rotatable drum with radial blades
- 1/44 . Mechanical treatment of leather surfaces
- 1/46 . . Fluffing, buffing or sanding
- 1/48 . . Roughening (by sanding C14B 1/46)
- 1/50 . . Glazing
- 1/52 . . Brushing or plush-wheeling

- 1/54 . . Ironing (pressing or rolling C14B 1/30)
- 1/56 . . Ornamenting, producing designs, embossing (pressing or rolling in general C14B 1/30; producing designs on furs C14B 15/12)
- 1/58 . Drying
- 1/60 . . Pasting processes (pasting boards C14B 1/26; chemical part C14C 7/00)
- 1/62 . Winding or stacking hides or leather
- 3/00 Milling leather**
- 5/00 Clicking, perforating, or cutting leather** (for shoe parts, e.g. soles, A43D; apparatus not specially adapted for leather B26D)
 - 5/02 . Stamps or dies for leather articles
 - 5/04 . for making leather belts or strips
 - 5/06 . . Machines for cutting strips spirally from discs of leather
- 7/00 Special leathers or their manufacture**
 - 7/02 . Composite leathers (with one or more laminae of plastics material B32B)
 - 7/04 . . by cementing or pressing together leather pieces, strips, or layers; Reinforcing or stiffening leather by means of reinforcing layers
 - 7/06 . Leather webs built up of interengaged strips or pieces, e.g. by braiding
- 9/00 Making driving belts or other leather belts or strips**
- 11/00 Finishing the edges of leather pieces, e.g. by folding, by burning** (milling C14B 3/00)
- 13/00 Shredding hides or leather** (shredding in general B02C)
- 15/00 Mechanical treatment of furs**
 - 15/02 . Shearing; Removing dead or coarse hairs or bristles by shearing or plucking
 - 15/04 . Fur dressing
 - 15/06 . . Fur-stretching devices
 - 15/08 . Application of reinforcing or stiffening layers to fur skins
 - 15/10 . Cutting furs; Making fur plates or strips
 - 15/12 . Finishing, e.g. pointing furs; Producing designs or patterns

<p>17/00 Details of apparatus or machines for manufacturing or treating skins, hides, leather, or furs</p> <p>17/02 . Blading cylinders or other working cylinders, e.g. slicking or scraping cylinders</p> <p>17/04 . Work-supports or other counter-pressing elements; Bed rolls or counter-pressing rolls</p> <p>17/06 . Work feeding or clamping devices</p> <p>17/08 . . Fastening devices, e.g. clips for leather-stretching</p> <p>17/10 . Arrangements for driving parts of leather-working machines</p>	<p>17/12 . Safety devices specially adapted for leather-working machines</p> <p>17/14 . Auxiliary devices for leather-working machines, e.g. grinding devices for blading cylinders or dust-removal devices combined with the working machines</p> <p>19/00 Hand tools specially adapted for the treatment of hides, skins, or leather in the manufacture of leather or furs (equipment or tools for saddlery B68C)</p> <p>21/00 Splitting intestines; Cutting intestines longitudinally (cleaning or cutting intestines during processing of meat A22C 17/00)</p> <p>99/00 Subject matter not provided for in other groups of this subclass [8]</p>
---	---

C14C CHEMICAL TREATMENT OF HIDES, SKINS OR LEATHER, E.G. TANNING, IMPREGNATING, FINISHING; APPARATUS THEREFOR; COMPOSITIONS FOR TANNING (dyeing or bleaching of leather or furs D06)

Note

Processes using enzymes or micro-organisms in order to:
 (i) liberate, separate or purify a pre-existing compound or composition, or to
 (ii) treat textiles or clean solid surfaces of materials
 are further classified in subclass C12S. [5]

Subclass Index

PRETREATMENT	1/00	FINISHING; SPECIAL LEATHERS	11/00; 13/00
TANNING; PASTING; IMPREGNATING	3/00; 7/00; 9/00	APPARATUS.....	15/00
DEGREASING	5/00	SUBJECT MATTER NOT PROVIDED FOR IN OTHER GROUPS OF THIS SUBCLASS	99/00

<p>1/00 Chemical treatment prior to tanning</p> <p>1/02 . Curing raw hides</p> <p>1/04 . Soaking</p> <p>1/06 . Facilitating unhairing, e.g. by painting, by liming</p> <p>1/08 . Delimiting; Bating; Pickling; Degreasing</p> <p>3/00 Tanning; Compositions for tanning</p> <p>3/02 . Chemical tanning</p> <p>3/04 . . Mineral tanning</p> <p>3/06 . . . using chromium compounds</p> <p>3/08 . . by organic agents</p> <p>3/10 . . . Vegetable tanning</p> <p>3/12 using purified or modified vegetable tanning agents</p> <p>3/14 . . . Fat tanning; Oil tanning</p> <p>3/16 . . . using aliphatic aldehydes</p> <p>3/18 . . . using polycondensation products or precursors thereof</p> <p>3/20 sulfonated</p> <p>3/22 . . . using polymerisation products</p> <p>3/24 . . . using lignin derivatives, e.g. sulfate liquor</p> <p>3/26 . . . using other organic substances, containing halogen</p>	<p>3/28 . . Multi-step processes</p> <p>3/30 . . using physical means combined with chemical means</p> <p>3/32 . Recovering tanning agents from leather</p> <p>5/00 Degreasing leather</p> <p>7/00 Pasting processes (chemical part)</p> <p>9/00 Impregnating leather for preserving, waterproofing, making resistant to heat or similar purposes</p> <p>9/02 . using fatty or oily materials, e.g. fat liquoring</p> <p>9/04 . Fixing tanning agents in the leather</p> <p>11/00 Surface finishing of leather</p> <p>13/00 Manufacture of special kinds of leather, e.g. vellum (chamois tanning C14C 3/14)</p> <p>13/02 . Manufacture of technical leather</p> <p>15/00 Apparatus for chemical treatment or washing of hides, skins, or leather</p> <p>99/00 Subject matter not provided for in other groups of this subclass [8]</p>
--	--