

SECTION C — CHEMISTRY; METALLURGY

C14 SKINS; HIDES; PELTS; LEATHER

C14B MECHANICAL TREATMENT OR PROCESSING OF SKINS, HIDES, OR LEATHER IN GENERAL; PELT-SHEARING MACHINES; INTESTINE-SPLITTING MACHINES (mechanical cleaning of hides or the like D06G)

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 dished 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 (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
- 1/58 • Drying
- 1/60 • • Pasting processes (chemical aspects 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)

- 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 9/02)
- 7/04 • • by cementing or pressing together leather pieces, strips, or layers; Reinforcing or stiffening leather by means of reinforcing layers

C14B

7/06	• Leather webs built up of interengaged strips or pieces, e.g. by braiding	17/04	• Work-supports or other counter-pressing elements; Bed rolls or counter-pressing rolls
9/00	Making driving belts or other leather belts or strips	17/06	• Work feeding or clamping devices
11/00	Finishing the edges of leather pieces, e.g. by folding, by burning	17/08	• • Fastening devices, e.g. clips for leather-stretching
13/00	Shredding hides or leather	17/10	• Arrangements for driving parts of leather-working machines
15/00	Mechanical treatment of furs	17/12	• Safety devices specially adapted for leather-working machines
15/02	• Shearing; Removing dead or coarse hairs or bristles by shearing or plucking	17/14	• Auxiliary devices for leather-working machines, e.g. grinding devices for blading cylinders or dust-removal devices combined with the working machines
15/04	• Fur dressing	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)
15/06	• • Fur-stretching devices	21/00	Splitting intestines; Cutting intestines longitudinally (cleaning or cutting intestines during processing of meat A22C 17/00)
15/08	• Application of reinforcing or stiffening layers to fur skins	99/00	Subject matter not provided for in other groups of this subclass [2006.01]
15/10	• Cutting furs; Making fur plates or strips		
15/12	• Finishing, e.g. pointing furs; Producing designs or patterns		
17/00	Details of apparatus or machines for manufacturing or treating skins, hides, leather, or furs		
17/02	• Blading cylinders or other working cylinders, e.g. slicking or scraping cylinders		

C14C TREATING SKINS, HIDES OR LEATHER WITH CHEMICALS, ENZYMES OR MICRO-ORGANISMS, e.g. TANNING, IMPREGNATING OR FINISHING; APPARATUS THEREFOR; COMPOSITIONS FOR TANNING (bleaching of leather or furs D06L; dyeing of leather or furs D06P)

Subclass index

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

1/00	Treating skins or hides with chemicals, enzymes or micro-organisms prior to tanning	3/26	• • • using other organic substances, containing halogen
1/02	• Curing raw hides	3/28	• • Multi-step processes
1/04	• Soaking	3/30	• • using physical means combined with chemical means
1/06	• Facilitating unhairing, e.g. by painting, by liming	3/32	• Recovering tanning agents from leather
1/08	• Deliming; Bating; Pickling; Degreasing	5/00	Degreasing leather
3/00	Tanning; Compositions for tanning	7/00	Chemical aspects of pasting processes
3/02	• Chemical tanning	9/00	Impregnating leather for preserving, waterproofing, making resistant to heat or similar purposes
3/04	• • Mineral tanning	9/02	• using fatty or oily materials, e.g. fat liquoring
3/06	• • • using chromium compounds	9/04	• Fixing tanning agents in the leather
3/08	• • by organic agents	11/00	Surface finishing of leather
3/10	• • • Vegetable tanning	13/00	Manufacture of special kinds of leather, e.g. vellum
3/12	• • • • using purified or modified vegetable tanning agents	13/02	• Manufacture of technical leather
3/14	• • • Fat tanning; Oil tanning	15/00	Apparatus for chemical treatment or washing of hides, skins, or leather
3/16	• • • using aliphatic aldehydes	99/00	Subject matter not provided for in other groups of this subclass [2006.01]
3/18	• • • using polycondensation products or precursors thereof		
3/20	• • • • sulfonated		
3/22	• • • using polymerisation products		
3/24	• • • using lignin derivatives, e.g. sulfate liquor		