

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
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SUBJECT MATTER NOT PROVIDED FOR IN OTHER GROUPS OF THIS SUBCLASS.....99/00

1/00	Manufacture of leather; Machines or devices therefor	1/32	• • by linear movement of the pressing elements
1/02	• Fleshing, unhairing, samming, stretching-out, setting-out, shaving, splitting, or skiving skins, hides, or leather	1/34	• • by rotating movement of the pressing or rolling elements
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	1/36	• • • Bridge leather-rolling machines
1/06	• • • in machines in which the working piece is maintained in contact with the working tools solely by means of rolls	1/38	• Hammering leather
1/08	• • • in machines with flexible bands as bed supporting or counter-pressure elements	1/40	• Softening or making skins or leather supple, e.g. by staking, boarding, or crippling machines, by dry mills
1/10	• • • in machines with drums with cylindrical, conical, or similar surfaces for supporting the whole working piece	1/42	• • by means of a rotatable drum with radial blades
1/12	• • • in machines with plane supporting bed-plates	1/44	• Mechanical treatment of leather surfaces
1/14	• • using tools cutting the skin in a plane substantially parallel to its surface	1/46	• • Fluffing, buffing or sanding
1/16	• • • using fixed or reciprocating or oscillating knives	1/48	• • Roughening (by sanding C14B 1/46)
1/18	• • • using band knives	1/50	• • Glazing
1/20	• • • using circular dished or coned knives	1/52	• • Brushing or plush-wheeling
1/22	• • • using cylindrical knives	1/54	• • Ironing (pressing or rolling C14B 1/30)
1/24	• • Cutting or shearing hairs without cutting the skin (shearing furs or plucking hairs for fur manufacturing purposes C14B 15/02)	1/56	• • Ornamenting, producing designs, embossing
1/26	• Leather tensioning or stretching frames; Stretching-machines; Setting-out boards; Pasting boards (fastening devices C14B 17/08)	1/58	• Drying
1/28	• Machines for treating leather combined with devices for measuring and printing	1/60	• • Pasting processes (chemical aspects C14C 7/00)
1/30	• Pressing or rolling leather	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
- 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**
- 13/00 Shredding hides or leather**
- 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
- 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
- 17/04 • Work-supports or other counter-pressing elements; Bed rolls or counter-pressing rolls
- 17/06 • Work feeding or clamping devices
- 17/08 • • Fastening devices, e.g. clips for leather-stretching
- 17/10 • Arrangements for driving parts of leather-working machines
- 17/12 • Safety devices specially adapted for leather-working machines
- 17/14 • Auxiliary devices for leather-working machines, e.g. grinding devices for blading cylinders or dust-removal devices combined with the working machines
- 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)**
- 21/00 Splitting intestines; Cutting intestines longitudinally (cleaning or cutting intestines during processing of meat A22C 17/00)**
- 99/00 Subject matter not provided for in other groups of this subclass [2006.01]**

C14C CHEMICAL TREATMENT OF SKINS, HIDES OR LEATHER, e.g. TANNING, IMPREGNATING, FINISHING; APPARATUS THEREFOR; COMPOSITIONS FOR TANNING (bleaching of leather or furs D06L; dyeing of leather or furs D06P)

Note(s)

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.

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 Chemical treatment prior to tanning**
- 1/02 • Curing raw hides
- 1/04 • Soaking
- 1/06 • Facilitating unhairing, e.g. by painting, by liming
- 1/08 • Delimiting; Bating; Pickling; Degreasing
- 3/00 Tanning; Compositions for tanning**
- 3/02 • Chemical tanning
- 3/04 • • Mineral tanning
- 3/06 • • • using chromium compounds
- 3/08 • • by organic agents
- 3/10 • • • Vegetable tanning
- 3/12 • • • • using purified or modified vegetable tanning agents
- 3/14 • • • Fat tanning; Oil tanning
- 3/16 • • • using aliphatic aldehydes
- 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
- 3/26 • • • using other organic substances, containing halogen
- 3/28 • • Multi-step processes
- 3/30 • • using physical means combined with chemical means
- 3/32 • Recovering tanning agents from leather
- 5/00 Degreasing leather**
- 7/00 Chemical aspects of pasting processes**
- 9/00 Impregnating leather for preserving, waterproofing, making resistant to heat or similar purposes**
- 9/02 • using fatty or oily materials, e.g. fat liquoring
- 9/04 • Fixing tanning agents in the leather
- 11/00 Surface finishing of leather**

13/00 **Manufacture of special kinds of leather, e.g. vellum**
13/02 • Manufacture of technical leather

15/00 **Apparatus for chemical treatment or washing of
hides, skins, or leather**

99/00 **Subject matter not provided for in other groups of
this subclass [2006.01]**