

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	1/54	. . Ironing (pressing or rolling C14B 1/30)
1/02	. Fleshing, unhairing, samming, stretching-out, setting-out, shaving, splitting, or skiving skins, hides, or leather	1/56	. . Ornamenting, producing designs, embossing (pressing or rolling in general C14B 1/30; producing designs on furs C14B 15/12)
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	1/58	. Drying
1/06	. . . in machines in which the working piece is maintained in contact with the working tools solely by means of rolls	1/60	. . Pasting processes (pasting boards C14B 1/26; chemical part C14C 7/00)
1/08	. . . in machines with flexible bands as bed supporting or counter-pressure elements	1/62	. Winding or stacking hides or leather
1/10	. . . in machines with drums with cylindrical, conical, or similar surfaces for supporting the whole working piece	3/00	Milling leather
1/12	. . . in machines with plane supporting bed-plates	5/00	Clicking, perforating, or cutting leather (for shoe parts, e.g. soles, A43D; apparatus not specially adapted for leather B26D)
1/14	. . using tools cutting the skin in a plane substantially parallel to its surface	5/02	. Stamps or dies for leather articles
1/16	. . . using fixed or reciprocating or oscillating knives	5/04	. for making leather belts or strips
1/18	. . . using band knives	5/06	. . Machines for cutting strips spirally from discs of leather
1/20	. . . using circular dished or coned knives	7/00	Special leathers or their manufacture
1/22	. . . using cylindrical knives	7/02	. Composite leathers (with one or more laminae of plastics material B32B)
1/24	. . Cutting or shearing hairs without cutting the skin (shearing furs or plucking hairs for fur manufacturing purposes C14B 15/02)	7/04	. . by cementing or pressing together leather pieces, strips, or layers; Reinforcing or stiffening leather by means of reinforcing layers
1/26	. Leather tensioning or stretching frames; Stretching-machines; Setting-out boards; Pasting boards (pasting processes C14B 1/60; fastening devices C14B 17/08)	7/06	. Leather webs built up of interengaged strips or pieces, e.g. by braiding
1/28	. Machines for treating leather combined with devices for measuring and printing	9/00	Making driving belts or other leather belts or strips
1/30	. Pressing or rolling leather	11/00	Finishing the edges of leather pieces, e.g. by folding, by burning (milling C14B 3/00)
1/32	. . by linear movement of the pressing elements	13/00	Shredding hides or leather (shredding in general B02C)
1/34	. . by rotating movement of the pressing or rolling elements	15/00	Mechanical treatment of furs
1/36	. . . Bridge leather-rolling machines	15/02	. Shearing; Removing dead or coarse hairs or bristles by shearing or plucking
1/38	. Hammering leather	15/04	. Fur dressing
1/40	. Softening or making skins or leather supple, e.g. by staking, boarding, or crippling machines, by dry mills	15/06	. . Fur-stretching devices
1/42	. . by means of a rotatable drum with radial blades	15/08	. Application of reinforcing or stiffening layers to fur skins
1/44	. Mechanical treatment of leather surfaces	15/10	. Cutting furs; Making fur plates or strips
1/46	. . Fluffing, buffing or sanding	15/12	. Finishing, e.g. pointing furs; Producing designs or patterns
1/48	. . Roughening (by sanding C14B 1/46)		
1/50	. . Glazing		
1/52	. . Brushing or plush-wheeling		

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

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

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