

Symbol	Typ	Titel
<b>D</b>	<b>Sektion</b>	<b>TEXTILES; PAPER</b>
<b>D04</b>	<b>Klasse</b>	<b>BRAIDING; LACE-MAKING; KNITTING; TRIMMINGS; NON-WOVEN FABRICS</b>
<b>D04H</b>	<b>Unterkategorie</b>	<b>MAKING TEXTILE FABRICS, e.g. FROM FIBRES OR FILAMENTARY MATERIAL (weaving D03; knitting D04B; braiding D04C; net-making D04G; sewing D05B; tufting D05C; finishing non-woven fabrics D06); FABRICS MADE BY SUCH PROCESSES OR APPARATUS, e.g. FELTS, NON-WOVEN FABRICS; COTTON-WOOL; WADDING (non-woven fabrics having an intermediate or external layer of a different kind, e.g. of woven fabric, B32B )</b>
		<b><u>Kinds or types of non-woven fabrics; Apparatus or processes for making such products</u></b>
<b>D04H 1/00</b>	<b>Hauptgruppe</b>	<b>Non-woven fabrics formed wholly or mainly of staple fibres or like relatively short fibres [1, 2006.01]</b>
D04H 1/02	1-Punkt Untergruppe	. Cotton wool; Wadding [1, 2006.01]
D04H 1/04	1-Punkt Untergruppe	. from fleeces or layers composed of fibres having existing or potential cohesive properties, e.g. natural fibres, prestretched or fibrillated man-made fibres (felting apparatus D04H 17/00) [1, 2006.01, 2012.01]
D04H 1/06	2-Punkt Untergruppe	... by treatment to produce shrinking, swelling, crimping or curling of fibres [1, 2006.01, 2012.01]
D04H 1/07	3-Punkt Untergruppe	... Regenerated cellulose series [2012.01]
D04H 1/073	3-Punkt Untergruppe	... Acrylonitrile series [2012.01]
D04H 1/08	2-Punkt Untergruppe	... and hardened by felting; Felts or felted products [1, 2006.01, 2012.01]
D04H 1/09	3-Punkt Untergruppe	... Silk [2012.01]
D04H 1/10	3-Punkt Untergruppe	... Felts made from mixtures of fibres [1, 2006.01]
D04H 1/12	4-Punkt Untergruppe	.... and incorporating man-made organic fibres [1, 2006.01]
D04H 1/14	4-Punkt Untergruppe	.... and incorporating inorganic fibres [1, 2006.01]
D04H 1/16	3-Punkt Untergruppe	... Laminated felts in which the separate layers are united by a felting process [1, 2006.01]
D04H 1/20	3-Punkt Untergruppe	... Felts incorporating inserts or attachments, e.g. for ornamental purposes [1, 2006.01]
D04H 1/22	3-Punkt Untergruppe	... Three-dimensional articles formed by felting processes [1, 2006.01]
D04H 1/24	3-Punkt Untergruppe	... Covers felted on to three-dimensional articles [1, 2006.01]
D04H 1/26	2-Punkt Untergruppe	... Wood pulp [2012.01]
D04H 1/28	2-Punkt Untergruppe	... Regenerated cellulose series [2012.01]
D04H 1/30	2-Punkt Untergruppe	... Collagen [2012.01]
D04H 1/32	2-Punkt Untergruppe	... Synthetic pulp [2012.01]
D04H 1/40	1-Punkt Untergruppe	. from fleeces or layers composed of fibres without existing or potential cohesive properties [1, 2006.01, 2012.01]
D04H 1/407	2-Punkt Untergruppe	... containing absorbing substances, e.g. activated carbon [2012.01]
D04H 1/413	2-Punkt Untergruppe	... containing granules other than absorbent substances [2012.01]
D04H 1/42	2-Punkt Untergruppe	... characterised by the use of certain kinds of fibres insofar as this use has no preponderant influence on the consolidation of the fleece [1, 2006.01, 2012.01]
D04H 1/4209	3-Punkt Untergruppe	... Inorganic fibres [2012.01]

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D04H 1/4218	4-Punkt Untergruppe	.... Glass fibres [2012.01]
D04H 1/4226	5-Punkt Untergruppe	..... characterised by the apparatus for manufacturing the glass fleece [2012.01]
D04H 1/4234	4-Punkt Untergruppe	.... Metal fibres [2012.01]
D04H 1/4242	4-Punkt Untergruppe	.... Carbon fibres [2012.01]
D04H 1/425	3-Punkt Untergruppe	... Cellulose series [2012.01]
D04H 1/4258	4-Punkt Untergruppe	.... Regenerated cellulose series [2012.01]
D04H 1/4266	3-Punkt Untergruppe	... Natural fibres not provided for in group D04H 1/425 [2012.01]
D04H 1/4274	3-Punkt Untergruppe	... Rags; Fabric scraps [2012.01]
D04H 1/4282	3-Punkt Untergruppe	... Addition polymers [2012.01]
D04H 1/4291	4-Punkt Untergruppe	.... Olefin series [2012.01]
D04H 1/43	4-Punkt Untergruppe	.... Acrylonitrile series [2012.01]
D04H 1/4309	4-Punkt Untergruppe	.... Polyvinyl alcohol [2012.01]
D04H 1/4318	4-Punkt Untergruppe	.... Fluorine series [2012.01]
D04H 1/4326	3-Punkt Untergruppe	... Condensation or reaction polymers [2012.01]
D04H 1/4334	4-Punkt Untergruppe	.... Polyamides [2012.01]
D04H 1/4342	5-Punkt Untergruppe	..... Aromatic polyamides [2012.01]
D04H 1/435	4-Punkt Untergruppe	.... Polyesters [2012.01]
D04H 1/4358	4-Punkt Untergruppe	.... Polyurethanes [2012.01]
D04H 1/4366	4-Punkt Untergruppe	.... Phenol series [2012.01]
D04H 1/4374	3-Punkt Untergruppe	... using different kinds of webs, e.g. by layering webs [2012.01]
D04H 1/4382	3-Punkt Untergruppe	... Stretched reticular film fibres; Composite fibres; Mixed fibres; Ultrafine fibres; Fibres for artificial leather [2012.01]
D04H 1/4391	3-Punkt Untergruppe	... characterised by the shape of the fibres [2012.01]
D04H 1/44	2-Punkt Untergruppe	... the fleeces or layers being consolidated by mechanical means, e.g. by rolling [1, 2006.01]
D04H 1/45	3-Punkt Untergruppe	... by forming intermeshing loops or stitches from some of the fibres [4, 2006.01]
D04H 1/46	3-Punkt Untergruppe	... by needling or like operations to cause entanglement of fibres (D04H 1/45 takes precedence; needling machines D04H 18/00) [1, 4, 2006.01, 2012.01]
D04H 1/48	4-Punkt Untergruppe	.... in combination with at least one other method of consolidation [1, 2006.01, 2012.01]
D04H 1/482	5-Punkt Untergruppe	..... in combination with shrinkage [2012.01]
D04H 1/485	5-Punkt Untergruppe	..... in combination with weld-bonding [2012.01]
D04H 1/488	5-Punkt Untergruppe	..... in combination with bonding agents [2012.01]
D04H 1/49	5-Punkt Untergruppe	..... entanglement by fluid jet in combination with another consolidation means [2012.01]
D04H 1/492	4-Punkt Untergruppe	.... by fluid jet (D04H 1/49 takes precedence) [2012.01]

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D04H 1/495	5-Punkt Untergruppe	..... for formation of patterns, e.g. drilling or rearrangement [2012.01]
D04H 1/498	4-Punkt Untergruppe	..... entanglement of layered webs [2012.01]
D04H 1/50	3-Punkt Untergruppe	... by treatment to produce shrinking, swelling, crimping or curling of fibres (in combination with needling D04H 1/482) [1, 2006.01, 2012.01]
D04H 1/52	3-Punkt Untergruppe	... by applying or inserting filamentary binding elements [1, 2006.01]
D04H 1/54	2-Punkt Untergruppe	... by welding together the fibres, e.g. by partially melting or dissolving (in combination with needling D04H 1/485) [1, 2006.01, 2012.01]
D04H 1/541	3-Punkt Untergruppe	... Composite fibres e.g. sheath-core, sea-island or side-by-side; Mixed fibres [2012.01]
D04H 1/542	3-Punkt Untergruppe	... Adhesive fibres [2012.01]
D04H 1/544	4-Punkt Untergruppe	.... Olefin series [2012.01]
D04H 1/545	4-Punkt Untergruppe	.... Polyvinyl alcohol [2012.01]
D04H 1/546	4-Punkt Untergruppe	.... Polyvinyl acetate [2012.01]
D04H 1/548	4-Punkt Untergruppe	.... Acrylonitrile series [2012.01]
D04H 1/549	4-Punkt Untergruppe	.... Polyamides [2012.01]
D04H 1/55	4-Punkt Untergruppe	.... Polyesters [2012.01]
D04H 1/551	4-Punkt Untergruppe	.... Resins thereof not provided for in groups D04H 1/544-D04H 1/55 [2012.01]
D04H 1/552	3-Punkt Untergruppe	... by applying solvents or auxiliary agents [2012.01]
D04H 1/554	3-Punkt Untergruppe	... by radio-frequency heating [2012.01]
D04H 1/555	3-Punkt Untergruppe	... by ultrasonic heating [2012.01]
D04H 1/556	3-Punkt Untergruppe	... by infrared heating [2012.01]
D04H 1/558	3-Punkt Untergruppe	... in combination with mechanical or physical treatments other than embossing [2012.01]
D04H 1/559	3-Punkt Untergruppe	... the fibres being within layered webs [2012.01]
D04H 1/56	3-Punkt Untergruppe	... in association with fibre formation, e.g. immediately following extrusion of staple fibres [1, 2006.01]
D04H 1/58	2-Punkt Untergruppe	... by applying, incorporating or activating chemical or thermoplastic bonding agents, e.g. adhesives (in combination with needling D04H 1/488) [1, 2006.01, 2012.01]
D04H 1/587	3-Punkt Untergruppe	... characterised by the bonding agents used [2012.01]
D04H 1/593	3-Punkt Untergruppe	... to layered webs [2012.01]
D04H 1/60	3-Punkt Untergruppe	... the bonding agent being applied in dry state, e.g. thermo-activatable agents in solid or molten state, and heat being applied subsequently [1, 2006.01]
D04H 1/62	4-Punkt Untergruppe	.... at spaced points or locations [1, 2006.01]
D04H 1/64	3-Punkt Untergruppe	... the bonding agent being applied in wet state, e.g. chemical agents in dispersions or solutions [1, 2006.01, 2012.01]
D04H 1/645	4-Punkt Untergruppe	.... Impregnation followed by a solidification process [2012.01]
D04H 1/65	5-Punkt Untergruppe	..... using mixed or composite fibres [2012.01]

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D04H 1/655	4-Punkt Untergruppe	.... characterised by the apparatus for applying bonding agents [2012.01]
D04H 1/66	4-Punkt Untergruppe	.... at spaced points or locations (D04H 1/68 takes precedence) [1, 2006.01, 2012.01]
D04H 1/68	4-Punkt Untergruppe	.... the bonding agent being applied in the form of foam [1, 2006.01, 2012.01]
D04H 1/70	1-Punkt Untergruppe	. characterised by the method of forming fleeces or layers, e.g. reorientation of fibres [1, 4, 2006.01, 2012.01]
D04H 1/72	2-Punkt Untergruppe	... the fibres being randomly arranged [1, 2006.01, 2012.01]
D04H 1/724	3-Punkt Untergruppe	... forming webs during fibre formation, e.g. flash-spinning [2012.01]
D04H 1/728	3-Punkt Untergruppe	... by electro-spinning [2012.01]
D04H 1/732	3-Punkt Untergruppe	... by fluid current, e.g. air-lay [2012.01]
D04H 1/736	3-Punkt Untergruppe	... characterised by the apparatus for arranging fibres (D04H 1/728, D04H 1/732 take precedence) [2012.01]
D04H 1/74	2-Punkt Untergruppe	... the fibres being orientated, e.g. in parallel [1, 2006.01]
D04H 1/76	2-Punkt Untergruppe	... otherwise than in a plane, e.g. in a tubular way [2012.01]
<b>D04H 3/00</b>	<b>Hauptgruppe</b>	<b>Non woven fabrics formed wholly or mainly of yarns or like filamentary material of substantial length [1, 2006.01, 2012.01]</b>
D04H 3/002	1-Punkt Untergruppe	. Inorganic yarns or filaments [2012.01]
D04H 3/004	2-Punkt Untergruppe	... Glass yarns or filaments [2012.01]
D04H 3/005	1-Punkt Untergruppe	. Synthetic yarns or filaments (D04H 3/013 takes precedence) [2012.01]
D04H 3/007	2-Punkt Untergruppe	... Addition polymers [2012.01]
D04H 3/009	2-Punkt Untergruppe	... Condensation or reaction polymers [2012.01]
D04H 3/011	3-Punkt Untergruppe	... Polyesters [2012.01]
D04H 3/013	1-Punkt Untergruppe	. Regenerated cellulose series [2012.01]
D04H 3/015	1-Punkt Untergruppe	. Natural yarns or filaments [2012.01]
D04H 3/016	1-Punkt Untergruppe	. characterised by the fineness [2012.01]
D04H 3/018	1-Punkt Untergruppe	. characterised by the shape [2012.01]
D04H 3/02	1-Punkt Untergruppe	. characterised by the method of forming fleeces or layers, e.g. reorientation of yarns or filaments [1, 4, 2006.01]
D04H 3/03	2-Punkt Untergruppe	... at random [1, 2006.01, 2012.01]
D04H 3/033	3-Punkt Untergruppe	... reorientation immediately after yarn or filament formation [2012.01]
D04H 3/037	3-Punkt Untergruppe	... reorientation by liquid [2012.01]
D04H 3/04	2-Punkt Untergruppe	... in rectilinear paths, e.g. crossing at right angles [1, 2006.01, 2012.01]
D04H 3/045	3-Punkt Untergruppe	... for net manufacturing [2012.01]
D04H 3/05	2-Punkt Untergruppe	... in another pattern, e.g. zig-zag, sinusoidal [1, 2006.01]
D04H 3/07	2-Punkt Untergruppe	... otherwise than in a plane, e.g. in a tubular way [1, 2006.01, 2012.01]
D04H 3/073	3-Punkt Untergruppe	... Hollow cylinder shaped [2012.01]

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D04H 3/077	3-Punkt Untergruppe	... Stick, rod or solid cylinder shaped [2012.01]
D04H 3/08	1-Punkt Untergruppe	. characterised by the method of strengthening or consolidating [1, 2006.01]
D04H 3/10	2-Punkt Untergruppe	... with bonds between yarns or filaments made mechanically [1, 2006.01, 2012.01]
D04H 3/105	3-Punkt Untergruppe	... by needling (needling machines D04H 18/00) [2012.01]
D04H 3/11	3-Punkt Untergruppe	... by fluid jet [2012.01]
D04H 3/115	3-Punkt Untergruppe	... by applying or inserting filamentary binding elements [2012.01]
D04H 3/12	2-Punkt Untergruppe	... with filaments or yarns secured together by chemical or thermo-activatable bonding agents, e.g. adhesives, applied or incorporated in liquid or solid form [1, 2006.01]
D04H 3/14	2-Punkt Untergruppe	... with bonds between thermoplastic yarns or filaments produced by welding [1, 2006.01, 2012.01]
D04H 3/147	3-Punkt Untergruppe	... Composite yarns or filaments [2012.01]
D04H 3/153	3-Punkt Untergruppe	... Mixed yarns or filaments [2012.01]
D04H 3/16	3-Punkt Untergruppe	... with bonds between thermoplastic filaments produced in association with filament formation, e.g. immediately following extrusion [1, 4, 2006.01]
<b>D04H 5/00</b>	<b>Hauptgruppe</b>	<b>Non woven fabrics formed of mixtures of relatively short fibres and yarns or like filamentary material of substantial length [1, 2006.01, 2012.01]</b>
D04H 5/02	1-Punkt Untergruppe	. strengthened or consolidated by mechanical methods, e.g. needling (needling machines D04H 18/00) [1, 2006.01, 2012.01]
D04H 5/03	2-Punkt Untergruppe	... by fluid jet [2012.01]
D04H 5/04	1-Punkt Untergruppe	. strengthened or consolidated by applying or incorporating chemical or thermo-activatable bonding agents in solid or liquid form [1, 2006.01]
D04H 5/06	1-Punkt Untergruppe	. strengthened or consolidated by welding-together thermoplastic fibres, filaments, or yarns [1, 2006.01]
D04H 5/08	1-Punkt Untergruppe	. characterised by the method of forming fleeces or layers, e.g. reorientation of fibres or yarns [1, 4, 2006.01, 2012.01]
D04H 5/10	2-Punkt Untergruppe	... otherwise than in a plane, e.g. in a tubular way [2012.01]
D04H 5/12	1-Punkt Untergruppe	. Glass fibres [2012.01]
<b>D04H 11/00</b>	<b>Hauptgruppe</b>	<b>Non-woven pile fabrics (layered products forming non-woven pile fabrics B32B) [1, 2006.01]</b>
D04H 11/04	1-Punkt Untergruppe	. formed by zig-zag folding of a fleece or layer of staple fibres, filaments, or yarns, strengthened or consolidated at the folds [1, 2006.01]
D04H 11/08	1-Punkt Untergruppe	. formed by creation of a pile on at least one surface of a non-woven fabric without addition of pile-forming material, e.g. by needling, by differential shrinking (needling machines D04H 18/00) [1, 2006.01]
<b>D04H 13/00</b>	<b>Hauptgruppe</b>	<b>Other non-woven fabrics [1, 2006.01]</b>
D04H 13/02	1-Punkt Untergruppe	. Production of non-woven fabrics by partial defibrillating of oriented thermoplastics films [4, 2006.01]
<b>D04H 17/00</b>	<b>Hauptgruppe</b>	<b>Felting apparatus [1, 2006.01]</b>
D04H 17/10	1-Punkt Untergruppe	. for felting between rollers, e.g. heated rollers [1, 2006.01]
D04H 17/12	2-Punkt Untergruppe	... Multi-roller apparatus [1, 2006.01]
<b>D04H 18/00</b>	<b>Hauptgruppe</b>	<b>Needling machines [1, 2006.01, 2012.01]</b>
D04H 18/02	1-Punkt Untergruppe	. with needles [2012.01]

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D04H 18/04	1-Punkt Untergruppe	. with water jets [2012.01]