

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1028

DATE: JANUARY 1, 2021

PROJECT RP0266

The following classification changes will be effected by this Notice of Changes:

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Symbols Deleted Pending Reclassification: (frozen (F)):	B32B	17/064
Symbols New:	B32B	17/10005
Titles Changed:	B32B	17/06
	B32B	17/061
	B32B	17/062
	B32B	17/063
	B32B	17/065
	B32B	17/066
	B32B	17/067
	B32B	17/068
	B32B	17/069
	B32B	17/10
	B32B	17/10036
	B32B	17/10045
	B32B	17/10055
	B32B	17/10091
	B32B	17/10128
	B32B	17/10155
	B32B	17/10165
	B32B	17/10247
	B32B	17/10321
	B32B	17/1033
	B32B	17/10339
	B32B	17/10366
	B32B	17/10376
	B32B	17/10385
	B32B	17/10394
	B32B	17/10403
	B32B	17/10431
	B32B	17/10449
	B32B	17/10458
	B32B	17/10504
	B32B	17/10513
	B32B	17/10522
	B32B	17/10532
	B32B	17/10541
	B32B	17/10605
	B32B	17/10614
	B32B	17/10669
	B32B	17/10807
	B32B	17/10825

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<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	B32B	17/10917
	B32B	17/10926
	B32B	17/10972
Indent Changed:	B32B	17/10009
	B32B	17/10018
	B32B	17/10027
	B32B	17/10036
	B32B	17/10045
	B32B	17/10055
	B32B	17/10064
	B32B	17/10073
	B32B	17/10082
	B32B	17/10091
	B32B	17/101
	B32B	17/1011
	B32B	17/10119
	B32B	17/10128
	B32B	17/10137
	B32B	17/10146
	B32B	17/10155
	B32B	17/10165
	B32B	17/10174
	B32B	17/10183
	B32B	17/10192
	B32B	17/10201
	B32B	17/10211
	B32B	17/1022
	B32B	17/10229
	B32B	17/10238
	B32B	17/10247
	B32B	17/10256
	B32B	17/10266
	B32B	17/10275
	B32B	17/10284
	B32B	17/10293
	B32B	17/10302
	B32B	17/10311
	B32B	17/10321
	B32B	17/1033
	B32B	17/10339
	B32B	17/10348
	B32B	17/10357
	B32B	17/10366
	B32B	17/10376
	B32B	17/10385
	B32B	17/10394
	B32B	17/10403

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	B32B	17/10412
	B32B	17/10422
	B32B	17/10431
	B32B	17/1044
	B32B	17/10449
	B32B	17/10458
	B32B	17/10467
	B32B	17/10477
	B32B	17/10486
	B32B	17/10495
	B32B	17/10504
	B32B	17/10513
	B32B	17/10522
	B32B	17/10532
	B32B	17/10541
	B32B	17/1055
	B32B	17/10559
	B32B	17/10568
	B32B	17/10577
	B32B	17/10587
	B32B	17/10596
	B32B	17/10605
	B32B	17/10614
	B32B	17/10623
	B32B	17/10633
	B32B	17/10642
	B32B	17/10651
	B32B	17/1066
	B32B	17/10669
	B32B	17/10678
	B32B	17/10688
	B32B	17/10697
	B32B	17/10706
	B32B	17/10715
	B32B	17/10724
	B32B	17/10733
	B32B	17/10743
	B32B	17/10752
	B32B	17/10761
	B32B	17/1077
	B32B	17/10779
	B32B	17/10788

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<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	B32B	17/10798
	B32B	17/10807
	B32B	17/10816
	B32B	17/10825
	B32B	17/10834
	B32B	17/10844
	B32B	17/10853
	B32B	17/10862
	B32B	17/10871
	B32B	17/1088
	B32B	17/10889
	B32B	17/10899
	B32B	17/10908
	B32B	17/10917
	B32B	17/10926
	B32B	17/10935
	B32B	17/10944
	B32B	17/10954
	B32B	17/10963
	B32B	17/10972
	B32B	17/10981
	B32B	17/1099
Warning New:	B32B	17/064
	B32B	17/10
	B32B	17/10005
Notes Deleted:	B32B	17/10
Notes New:	B32B	17/00
	B32B	17/10005
	B32B	2319/00
DEFINITIONS:		
Definitions New:	B32B	17/02
	B32B	17/10005
	B32B	17/10431
	B32B	17/10669
Definitions Modified:	B32B	17/00
	B32B	17/06
	B32B	17/08
	B32B	17/10
	B32B	17/10917

No other subclasses/groups are impacted by this Notice of Changes.

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This Notice of Changes includes the following [Check the ones included]:

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

- 3. REVISION CONCORDANCE LIST (RCL)
- 4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
- 5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS B32B - LAYERED PRODUCTS, i.e. PRODUCTS BUILT-UP OF STRATA OF FLAT OR NON-FLAT, e.g. CELLULAR OR HONEYCOMB, FORM

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	B32B 17/06	1	comprising glass as the main or only constituent of a layer, next to another layer of a specific {material}	
M	B32B 17/061	2	{of metal}	
M	B32B 17/062	2	{of wood}	
M	B32B 17/063	2	{of rubber}	
F	B32B 17/064	2	{synthetic resin (B32B 17/10 takes precedence)}	B32B17/10, B32B17/10005, B32B17/10009, B32B17/10018, B32B17/10027, B32B17/10036, B32B17/10045, B32B17/10055, B32B17/10064, B32B17/10073, B32B17/10082, B32B17/10091, B32B17/101, B32B17/1011, B32B17/10119, B32B17/10128, B32B17/10137, B32B17/10146, B32B17/10155, B32B17/10165, B32B17/10174, B32B17/10183, B32B17/10192, B32B17/10201, B32B17/10211, B32B17/1022, B32B17/10229, B32B17/10238, B32B17/10247, B32B17/10256, B32B17/10266, B32B17/10275, B32B17/10284,

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
				B32B17/10293, B32B17/10302, B32B17/10311, B32B17/10321, B32B17/1033, B32B17/10339, B32B17/10348, B32B17/10357, B32B17/10366, B32B17/10376, B32B17/10385, B32B17/10394, B32B17/10403, B32B17/10412, B32B17/10422, B32B17/10431, B32B17/1044, B32B17/10449, B32B17/10458, B32B17/10467, B32B17/10477, B32B17/10486, B32B17/10495, B32B17/10504, B32B17/10513, B32B17/10522, B32B17/10532, B32B17/10541, B32B17/1055, B32B17/10559, B32B17/10568, B32B17/10577, B32B17/10587, B32B17/10596, B32B17/10605, B32B17/10614, B32B17/10623, B32B17/10633, B32B17/10642, B32B17/10651, B32B17/1066, B32B17/10669, B32B17/10678, B32B17/10688, B32B17/10697, B32B17/10706, B32B17/10715,

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<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
				B32B17/10724, B32B17/10733, B32B17/10743, B32B17/10752, B32B17/10761, B32B17/1077, B32B17/10779, B32B17/10788, B32B17/10798, B32B17/10807, B32B17/10816, B32B17/10825, B32B17/10834, B32B17/10844, B32B17/10853, B32B17/10862, B32B17/10871, B32B17/1088, B32B17/10889, B32B17/10899, B32B17/10908, B32B17/10917, B32B17/10926, B32B17/10935, B32B17/10944, B32B17/10954, B32B17/10963, B32B17/10972, B32B17/10981, B32B17/1099
M	B32B 17/065	2	{of paper or cardboard }	
M	B32B 17/066	2	{of foam }	
M	B32B 17/067	2	{of fibres or filaments }	
M	B32B 17/068	2	{of particles }	
M	B32B 17/069	2	{of intumescent material (B32B17/10311 takes precedence)}	
C	B32B 17/10	2	of synthetic resin	B32B17/10,

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				B32B17/10005, B32B17/10009, B32B17/10018, B32B17/10027, B32B17/10036, B32B17/10045, B32B17/10055, B32B17/10064, B32B17/10073, B32B17/10082, B32B17/10091, B32B17/101, B32B17/1011, B32B17/10119, B32B17/10128, B32B17/10137, B32B17/10146, B32B17/10155, B32B17/10165, B32B17/10174, B32B17/10183, B32B17/10192, B32B17/10201, B32B17/10211, B32B17/1022, B32B17/10229, B32B17/10238, B32B17/10247, B32B17/10256, B32B17/10266, B32B17/10275, B32B17/10284, B32B17/10293, B32B17/10302, B32B17/10311, B32B17/10321, B32B17/1033, B32B17/10339, B32B17/10348, B32B17/10357, B32B17/10366, B32B17/10376, B32B17/10385, B32B17/10394, B32B17/10403, B32B17/10412, B32B17/10422,

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				B32B17/10431, B32B17/1044, B32B17/10449, B32B17/10458, B32B17/10467, B32B17/10477, B32B17/10486, B32B17/10495, B32B17/10504, B32B17/10513, B32B17/10522, B32B17/10532, B32B17/10541, B32B17/1055, B32B17/10559, B32B17/10568, B32B17/10577, B32B17/10587, B32B17/10596, B32B17/10605, B32B17/10614, B32B17/10623, B32B17/10633, B32B17/10642, B32B17/10651, B32B17/1066, B32B17/10669, B32B17/10678, B32B17/10688, B32B17/10697, B32B17/10706, B32B17/10715, B32B17/10724, B32B17/10733, B32B17/10743, B32B17/10752, B32B17/10761, B32B17/1077, B32B17/10779, B32B17/10788, B32B17/10798, B32B17/10807, B32B17/10816, B32B17/10825, B32B17/10834, B32B17/10844, B32B17/10853,

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				B32B17/10862, B32B17/10871, B32B17/1088, B32B17/10889, B32B17/10899, B32B17/10908, B32B17/10917, B32B17/10926, B32B17/10935, B32B17/10944, B32B17/10954, B32B17/10963, B32B17/10972, B32B17/10981, B32B17/1099
N	B32B 17/10005	3	{laminated safety glass or glazing}	
T	B32B17/10009	4	{characterized by the number, the constitution or treatment of glass sheets}	
T	B32B17/10018	5	{comprising only one glass sheet}	
T	B32B17/10027	6	{the glass sheet not being an outer layer}	
T	B32B17/10036	5	{comprising two outer glass sheets}	
T	B32B17/10045	6	{with at least one intermediate layer consisting of a glass sheet}	
T	B32B17/10055	7	{with at least one intermediate air space}	
T	B32B17/10064	5	{comprising at least two glass sheets, only one of which being an outer layer}	
T	B32B17/10073	5	{comprising at least two glass sheets, neither of which being an outer layer}	
T	B32B17/10082	5	{Properties of the bulk of a glass sheet}	
T	B32B17/10091	6	{thermally hardened}	
T	B32B17/101	6	{having a predetermined coefficient of thermal expansion [CTE]}	
T	B32B17/1011	6	{having predetermined tint or excitation purity}	
T	B32B17/10119	6	{having a composition deviating from the basic composition of soda-lime glass, e.g. borosilicate}	
T	B32B17/10128	5	{Treatment of at least one glass sheet}	
T	B32B17/10137	6	{Chemical strengthening}	
T	B32B17/10146	6	{Face treatment, e.g. etching, grinding or sand blasting}	
T	B32B17/10155	6	{Edge treatment or chamfering}	
T	B32B17/10165	4	{Functional features of the laminated safety glass or glazing}	

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T	B32B17/10174	5	{Coatings of a metallic or dielectric material on a constituent layer of glass or polymer}	
T	B32B17/10183	6	{being not continuous, e.g. in edge regions}	
T	B32B17/10192	7	{patterned in the form of columns or grids}	
T	B32B17/10201	6	{Dielectric coatings}	
T	B32B17/10211	7	{Doped dielectric layer, electrically conductive, e.g. SnO ₂ :F}	
T	B32B17/1022	6	{Metallic coatings}	
T	B32B17/10229	7	{Metallic layers sandwiched by dielectric layers}	
T	B32B17/10238	6	{in the form of particles}	
T	B32B17/10247	5	{Laminated safety glass or glazing containing decorations or patterns for aesthetic reasons (containing metal wires for aesthetic reasons B32B17/10422)}	
T	B32B17/10256	6	{created by printing techniques}	
T	B32B17/10266	7	{on glass pane}	
T	B32B17/10275	7	{on interlayer}	
T	B32B17/10284	7	{on intermediate layer}	
T	B32B17/10293	5	{Edge features, e.g. inserts or holes}	
T	B32B17/10302	6	{Edge sealing}	
T	B32B17/10311	5	{Intumescent layers for fire protection}	
T	B32B17/10321	5	{Laminated safety glass or glazing containing liquid layers}	
T	B32B17/1033	5	{Laminated safety glass or glazing containing temporary protective coatings or layers}	
T	B32B17/10339	5	{Specific parts of the laminated safety glass or glazing being colored or tinted (tinted glass sheet B32B17/1011; tinted interlayer B32B17/10651)}	
T	B32B17/10348	6	{comprising an obscuration band}	
T	B32B17/10357	6	{comprising a tinted intermediate film}	
T	B32B17/10366	5	{Reinforcements of the laminated safety glass or glazing against impact or intrusion (containing metal wires for reinforcement B32B17/10412)}	
T	B32B17/10376	5	{Laminated safety glass or glazing containing metal wires}	
T	B32B17/10385	6	{for ohmic resistance heating}	
T	B32B17/10394	6	{Alarm wires}	
T	B32B17/10403	6	{for radiation shielding}	
T	B32B17/10412	6	{for reinforcement}	

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T	B32B17/10422	6	{for aesthetic reasons}	
T	B32B17/10431	5	{Specific parts for the modulation of light incorporated into the laminated safety glass or glazing}	
T	B32B17/1044	6	{Invariable transmission}	
T	B32B17/10449	7	{Wavelength selective transmission}	
T	B32B17/10458	7	{Polarization selective transmission}	
T	B32B17/10467	6	{Variable transmission}	
T	B32B17/10477	7	{thermochromic}	
T	B32B17/10486	7	{photochromic}	
T	B32B17/10495	7	{optoelectronic, i.e. optical valve}	
T	B32B17/10504	8	{Liquid crystal layer}	
T	B32B17/10513	8	{Electrochromic layer}	
T	B32B17/10522	8	{Electrophoretic layer}	
T	B32B17/10532	8	{Suspended particle layer}	
T	B32B17/10541	5	{comprising a light source or a light guide}	
T	B32B17/1055	4	{characterized by the resin layer, i.e. interlayer}	
T	B32B17/10559	5	{Shape of the cross-section}	
T	B32B17/10568	6	{varying in thickness}	
T	B32B17/10577	6	{Surface roughness}	
T	B32B17/10587	7	{created by embossing}	
T	B32B17/10596	7	{created by melt fracture}	
T	B32B17/10605	5	{Type of plasticiser}	
T	B32B17/10614	5	{comprising particles for purposes other than dyeing}	
T	B32B17/10623	6	{Whitening agents reflecting visible light}	
T	B32B17/10633	6	{Infrared radiation absorbing or reflecting agents}	
T	B32B17/10642	6	{Thermally conductive agents}	
T	B32B17/10651	5	{comprising colorants, e.g. dyes or pigments}	
T	B32B17/1066	6	{imparting a tint in certain regions only, i.e. shade band}	
T	B32B17/10669	6	{Luminescent agents}	
T	B32B17/10678	5	{comprising UV absorbers or stabilizers, e.g. antioxidants}	
T	B32B17/10688	5	{Adjustment of the adherence to the glass layers}	
T	B32B17/10697	5	{being cross-linked}	
T	B32B17/10706	5	{being photo-polymerized}	
T	B32B17/10715	5	{containing polyether}	
T	B32B17/10724	5	{containing polyamide}	
T	B32B17/10733	5	{containing epoxy}	

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T	B32B17/10743	5	{containing acrylate (co)polymers or salts thereof}	
T	B32B17/10752	5	{containing polycarbonate}	
T	B32B17/10761	5	{containing vinyl acetal}	
T	B32B17/1077	5	{containing polyurethane}	
T	B32B17/10779	5	{containing polyester}	
T	B32B17/10788	5	{containing ethylene vinylacetate}	
T	B32B17/10798	5	{containing silicone}	
T	B32B17/10807	4	{Making laminated safety glass or glazing; Apparatus therefor}	
T	B32B17/10816	5	{by pressing}	
T	B32B17/10825	6	{Isostatic pressing, i.e. using non rigid pressure-exerting members against rigid parts}	
T	B32B17/10834	7	{using a fluid}	
T	B32B17/10844	8	{using a membrane between the layered product and the fluid}	
T	B32B17/10853	9	{the membrane being bag-shaped}	
T	B32B17/10862	7	{using pressing-rolls}	
T	B32B17/10871	6	{in combination with particular heat treatment}	
T	B32B17/1088	5	{by superposing a plurality of layered products}	
T	B32B17/10889	5	{shaping the sheets, e.g. by using a mould (B32B17/10816 takes precedence)}	
T	B32B17/10899	5	{by introducing interlayers of synthetic resin}	
T	B32B17/10908	6	{in liquid form}	
T	B32B17/10917	7	{between two pre-positioned glass layers}	
T	B32B17/10926	6	{by spraying}	
T	B32B17/10935	6	{as a preformed layer, e.g. formed by extrusion}	
T	B32B17/10944	6	{in powder form}	
T	B32B17/10954	6	{by using an aligning laminating device}	
T	B32B17/10963	5	{specially adapted for repairing the layered products}	
T	B32B17/10972	5	{Degassing during the lamination (B32B17/10816 takes precedence)}	
T	B32B17/10981	5	{Pre-treatment of the layers}	
T	B32B17/1099	5	{After-treatment of the layered product, e.g. cooling}	

*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; T= existing entries with enlarged file scope, which receive

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documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

NOTES:

- **No { curly brackets } are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The { curly brackets } are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required “anchor” symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- “Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD> , <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.
- For finalisation projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

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B. New, Modified or Deleted Warning(s)

SUBCLASS B32B - LAYERED PRODUCTS, i.e. PRODUCTS BUILT-UP OF STRATA OF FLAT OR NON-FLAT, e.g. CELLULAR OR HONEYCOMB, FORM

<u>Type*</u>	<u>Location</u>	<u>Old Warning</u>	<u>New/Modified Warning</u>
N	B32B17/064		Group B32B17/064 is no longer used for the classification of documents as of January 1, 2021. The content of this group is being reclassified into groups B32B17/10 - B32B17/1099. Groups B32B17/064 and B32B17/10 - B32B17/1099 should be considered in order to perform a complete search.
N	B32B17/10		Group B32B17/10 is impacted by reclassification into groups B32B17/10005 - B32B17/1099. Groups B32B17/10 and B32B 17/10005 - B32B17/1099 should be considered in order to perform a complete search.
N	B32B 17/10005		Groups B32B17/10005 - B32B17/1099 are incomplete pending reclassification of documents from groups B32B17/064 and B32B17/10. All groups listed in this warning should be considered in order to perform a complete search.

*N = new warning, M = modified warning, D = deleted warning

NOTE: The "Location" column only requires the symbol PRIOR to the location of the warning. No further directions such as "before" or "after" are required.

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C. New, Modified or Deleted Note(s)**SUBCLASS B32B - LAYERED PRODUCTS, i.e. PRODUCTS BUILT-UP OF STRATA OF FLAT OR NON-FLAT, e.g. CELLULAR OR HONEYCOMB, FORM**

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
N	B32B17/00		<p><u>Insert</u> the following <u>new</u> note.</p> <p>{In this group, a layer of organic glass is not considered as a glass layer but as a synthetic resin layer.}</p>
D	B32B17/10	<p><u>NOTES</u></p> <p>1. In this group a layer of organic glass is not considered as a glass layer but as a synthetic resin layer];</p> <p>2. [N: Inventions related to safety glazings (laminated glazings) are classified in all appropriate subgroups B32B 17/10009 - B32B 17/10807, whereby transparent polymeric layers other than the interlayer (B32B 17/1055) are classified using indexing codes</p>	<p><u>Delete</u> the entire NOTES section.</p>
N	B32B17/10005		<p>{In this group, C-Sets are used. The detailed information about the C-Sets construction and the associated syntax rules is present in the Definitions of B32B.}</p>
N	B32B2319/00		<p>In groups B32B2319/00 - B32B2386/00, C-Sets are used. Detailed information about C-Sets construction and the associated syntax rules is found in the Definitions.</p>

*N = new note, M = modified note, D = deleted note

NOTE: The "Location" column only requires the symbol PRIOR to the location of the note. No further directions such as "before" or "after" are required.

2. A. DEFINITIONS (new)

Insert the following new definitions.

B32B17/02

Relationships with other classification places

In the case that a layered product comprises a layer of glass fibres without any layer of sheet glass, classification is done in B32B 5/02, the presence of glass fibres being classified by the indexing symbol B32B 2262/101.

Special rules of classification

B32B17/00 requires that the layered product comprises at least one glass layer and at least one layer of another material; a layered product comprising both a glass layer and a glass fibre layer is classified in both B32B17/02 (or B32B17/04) and B32B17/06.

B32B17/10005

Definition statement

This place covers:

Layered products comprising at least one inorganic glass layer in sheet form next to a layer of synthetic resin; wherein the glass sheet is permanently bonded to at least one further glass sheet or a durable polymer sheet or film, by means of the synthetic resin layer as an interlayer which provides for a predetermined force of adhesion between the layers by subjecting them to a lamination process with emphasis on the absence of optical defects, and provides the laminated product with properties satisfying the requirements of safety glass, e.g. the synthetic resin layer keeps the layers bonded even when broken, preventing the glass from shattering.

Relationships with other classification places

Laminated safety glass or glazing is used for automotive and transport applications (automotive windows in general [B60J1/00](#)), for architectural purposes ([E06B3/54](#) or

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[E04F13/15](#)), transparent armour ([F41H5/0407](#)) and photovoltaic modules ([H01L31/048](#)).

References

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Automotive windows	B60J1/00
Railway windows	B61D25/00
Aircraft windows	B64C1/1484
Antiballistic glazings	F41H5/0407
Heating windshields	H05B3/84

Informative references

Attention is drawn to the following places, which may be of interest for search:

Glass compositions	C03C3/00
Coatings on glass	C03C17/00
Joining pieces of glass to pieces of other inorganic material	C03C27/00
Sky-lights	E04D13/03
Coverings or linings of glass, e.g. for walls or ceilings	E04F13/14
Layout of fixed or moving closures, e.g. windows	E06B3/54
Insulating glass windows	E06B3/67
Optical devices made from glass	G02B1/00
Alarm windows	G08B13/04
Transparent shielding materials against electric or magnetic fields	H05K9/0094

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Special rules of classification

Laminated safety glass comprising at least one layer of inorganic glass, a resin interlayer and an external layer of a synthetic polymeric sheet or film is classified using the appropriate group selected from [B32B17/10009](#) - [B32B17/1099](#) together with the [B32B2319/00](#) - [B32B2386/00](#) orthogonal Indexing symbol that designates the polymeric material of said external polymer layer as a single symbol.

The presence of resin interlayers, their properties and/or their compositions are further specified in groups [B32B17/1055](#) - [B32B17/10798](#).

When [B32B17/10005](#) is used as a base symbol in C-Sets, it is not allocated as a separate single symbol.

Combination sets (C-Sets):

C-Sets statement: #B32Ba

- In subgroup [B32B17/10005](#), the polymeric material of an intermediate layer sandwiched between interlayers of a laminated safety glass or glazing is classified in the form of C-Sets.
- In #B32Ba, the base symbol, representing the laminated safety glass structure comprising an interlayer adjacent the glass, is taken from subgroup [B32B17/10005](#), whereas the subsequent symbol representing the nature of the polymeric material of the intermediate layer sandwiched between interlayers is taken from the groups [B32B2319/00](#) - [B32B2386/00](#).
- When the polymeric intermediate layer comprises a mixture of polymeric materials taken from [B32B2319/00](#) - [B32B2386/00](#), separate C-Sets are given based on each polymeric material as the subsequent symbol.
- [B32B17/10005](#) is not allocated as a separate single symbol when it is allocated as a base symbol in a C-Set.

C-Sets syntax rules:

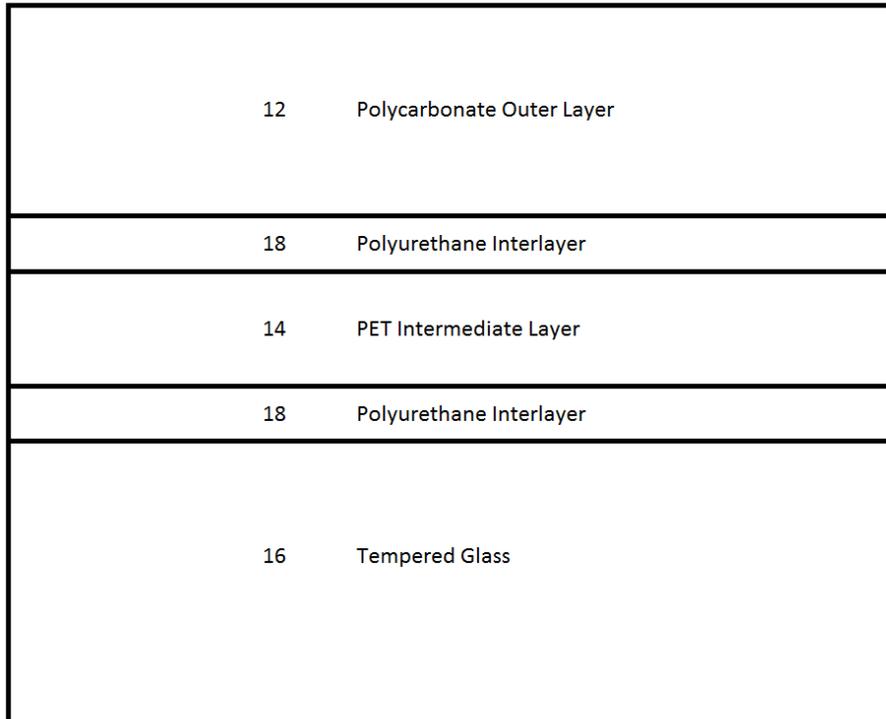
- Each C-Set shall contain exactly two symbols.
- Duplicate symbols are not allowed in these C-Sets.
- The order of symbols in these C-Sets is relevant as it reflects the laminated safety glass structure as the base symbol, followed by the polymeric material forming the intermediate layer as the subsequent symbol.

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C-Sets examples:

- #B32Ba: In a safety glass laminate (B32B17/10005) comprising outer glass panes and a composite interlayer comprising a polycarbonate sheet, the polycarbonate (B32B2369/00) sandwiched between two polyvinyl butyral (PVB) interlayers is classified as (B32B 17/10005, B32B 2369/00) and the PVB interlayers are classified as B32B17/10761.
- #B32Ba: In a safety glass (B32B17/10005) comprising a first outer layer of glass, a second outer layer of rigid polymer and an intermediate film adhering the first outer layer to the second outer layer, wherein the intermediate film has the layer structure: polyurethane/polyacrylate/polyurethane, the polyacrylate (B32B2333/08) is classified as (B32B 17/10005, B32B 2333/08) and the polyurethane interlayers are classified as B32B17/1077.
- #B32Ba: In a glass laminate (see figure below) comprising a thermoplastic top layer 12 of polycarbonate (B32B2369/00), a bottom layer 16 formed of tempered glass, and an intermediate layer 14 of polyethylene terephthalate (PET) (B32B2367/00) positioned between the top 12 and bottom 16 layers, wherein the three layers 12, 14, and 16 are bonded together using a polyurethane adhesive 18 and the glass laminate meets safety glass requirements (B32B17/10005), the PET intermediate layer 14 is classified as (B32B17/10005, B32B 2367/00), the polyurethane adhesive layers (interlayers) 18 are classified as B32B17/1077, and the polycarbonate top (outer) layer 12 is classified as B32B 2369/00 as a single symbol.



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Glossary of terms*In this place, the following terms or expressions are used with the meaning indicated:*

Laminated safety glass or glazing, safety glazing, laminated glazing	Inorganic glass pane bonded to another inorganic glass pane or to a durable polymeric pane via a resin interlayer and satisfying safety requirements wherein the interlayer keeps the panes bonded even when struck or broken, preventing the glass from shattering into large, jagged pieces.
Interlayer	An internal layer of thermoplastic polymer bonding the components of a laminated safety glass or glazing to one another.
Intermediate layer, intermediate film	An internal layer or film used as a barrier or as a carrier for functional layers and not having adhesive properties.
Plasticiser	Organic compound which reduces the glass transition temperature of the interlayer, usually an interlayer of PVB.

Synonyms and Keywords*In patent documents, the following abbreviations are often used:*

PVB	Polyvinyl butyral
PHR	Parts per hundred of resin - amount of plasticizer per 100 parts of PVB
IG	Insulation glass

B32B17/10431**References*****Informative references****Attention is drawn to the following places, which may be of interest for search:*

Optical filters	G02B5/20
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Polarising elements	G02B5/30
Devices for the control of the intensity of light based on liquid crystals	G02F1/13
Devices for the control of the intensity of light based on electrochromic elements	G02F1/15
Devices for the control of the intensity of light based on electrophoresis	G02F1/167
Devices for the control of the intensity of light based on suspension of oriented dipolar particles	G02F1/172

B32B17/10669

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Optical brightening agents	C08K5/0041
Luminescent agents	C09K11/00

2. A. DEFINITIONS (modified)

Modify the following definitions.

B32B17/00

Definition statement

Replace: The existing paragraph in the “Definitions statement” section with the following revised paragraph.

Layered products comprising inorganic glass in sheet or film form, or fibres of glass or slag united with another layer of inorganic glass, glass in the form of a sheet or film bonded with a transparent synthetic resin to another transparent layer, and laminated glazings.

Relationships with other classification places

Delete: The entire existing “Relationships with other classification places” section.

Limiting references

Delete: The entire existing “Limiting references” section.

Application-oriented references

Insert: The following two new rows in the “Application-oriented references” table.

Antiballistic glazings	F41H5/0407
Liquid crystal displays	G02F1/13

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Informative referencesReplace: The existing table with the following updated table.

Furniture panels or shelves	A47B96/00
Show cases or cabinets	A47F3/00
Fibre-reinforced material	B29C66/721
Producing optical elements from plastics	B29D11/00
Layered products comprising a fibrous layer	B32B5/02
Designs with unusual light effects	B44F1/00
Glass compositions	C03C3/00
Coatings on glass	C03C17/00
Surface treatment of glass fibres	C03C25/00
Joining pieces of glass to pieces of other inorganic material	C03C27/00
Manufacture of prepregs	C08J5/24
Compositions of polymers	C08L
Coverings or linings of glass, e.g. for walls or ceilings	E04F13/14
Layout of fixed or moving closures, e.g. windows	E06B3/54
Insulating glass windows	E06B3/67
Constructional features of refrigerators	F25D23/00
Optical devices made from glass	G02B1/00
Alarm windows	G08B13/04
Billboards	G09F13/00
Window antennas	H01Q1/1271
Printed circuit boards comprising glass substrates	H05K1/0306

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Transparent shielding materials against electric or magnetic fields	H05K9/0094
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Special rules of classification

Replace: The text in the existing “Special rules of classification” with the following revised text.

- In this group a layer of organic glass is not considered as a glass layer but as a synthetic resin layer which is classified using orthogonal Indexing symbols selected from the groups [B32B2319/00](#) – [B32B2386/00](#) allocated as single symbols or in C-Sets as explained in [B32B17/10005](#).
- The layer adjacent to the glass layer is specified by classifying in one of the appropriate groups selected in the range [B32B17/06](#) - [B32B17/10005](#).
- Layered products comprising a layer of glass next to a layer of synthetic resin are classified in [B32B17/10](#).
- Layered products comprising a layer of glass next to a layer of synthetic resin that are considered to be laminated safety glass or glazings satisfying safety requirements are classified in [B32B17/10005](#) and subgroups.
- Certain synthetic resin materials are further specified in [B32B17/1055](#) when they are used as an interlayer to create a laminated safety glass or glazing.
- [B32B17/00](#) requires that the layered product comprises at least one glass layer and at least one layer of another material; a layered product comprising both a glass layer and a glass fibre layer is classified in both [B32B17/02](#) (or [B32B17/04](#)) and [B32B17/06](#).

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Replace: The the existing “Glossary of terms” table with the following revised table.

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Laminated safety glass or glazing, safety glazing, laminated glazing	Inorganic glass pane bonded to another inorganic glass pane or to a durable polymeric pane via a resin interlayer and satisfying safety requirements wherein the interlayer keeps the panes bonded even when struck or broken, preventing the glass from shattering into large, jagged pieces.
Interlayer	An internal layer of thermoplastic polymer bonding the components of a laminated safety glass or glazing to one another.
Intermediate layer, intermediate film	An internal layer or film used as a barrier or as a carrier for functional layers and not having adhesive properties.
Plasticiser	Organic compound which reduces the glass transition temperature of the interlayer, usually an interlayer of PVB.
Glazing	A transparent closure of an opening such as the glass of a window.

Synonyms and Keywords

Replace: The existing “Synonyms and Keywords” table with the following revised table.

PVB	Polyvinyl butyral
PHR	Parts per hundred of resin - amount of plasticiser per 100 parts of PVB
IG	Insulation glass

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FRP	Fibre-reinforced plastic
PCB	Printed circuit board
PWB	Printed wiring board

B32B17/06

Definition statement

Replace: The existing paragraphs in the “Definition statement” section with the following paragraphs.

Layered products comprising an inorganic glass layer in sheet or film form next to another layer of generic material.

The layers need not be permanently secured, such as a releasable protective layer.

References

Delete: The entire “” section: Limiting references, Application-oriented references, and Informative references.

Special rules of classification

Replace: The text in the existing “Special rules of classification” section with the following text.

B32B17/06 is given in the case that an inorganic glass layer is present next to another glass layer with no further information.

B32B17/08

Definition statement

Replace: The text in the existing “Definition statement” with the following text.

Layered products comprising inorganic glass in sheet or film form next to a layer of a cellulose derivative or gelatin as polymeric substance.

Relationships with other classification places

Delete: The entire Relationships with other classification places section.

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References

Delete: The entire References/Limiting references section.

B32B17/10

Definition statement

Replace: The text in the existing “Definition statement” with the following revised text.

Layered products comprising at least one inorganic glass layer in sheet or film form next to a layer of synthetic resin; the synthetic resin layer can be used as a glue layer to bond the glass layer with another glass layer or another material layer or can be used as a removable protective film.

Relationships with other classification places

Delete: The entire existing “Relationships with other classification places” section.

References

Delete: The entire existing “References” section that includes: Limiting references, Application-oriented references, and Informative references.

Special rules of classification

Replace: The text in the existing “Special rules of classification” section with the following revised text.

In this group, a layer of organic glass is not considered as a glass layer but as a synthetic resin layer. The nature of the synthetic resin material is classified using the appropriate orthogonal symbols from groups B32B2319/00 - B32B2386/00 as a single symbol(s).

Glossary of terms

Delete: The entire “Glossary of terms” section.

Synonyms and Keywords

Delete: The entire “Synonyms and Keywords” section.

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B32B17/10917

Limiting references

Delete: The entire Limiting references section.

Application-oriented references

Delete: The entire Application-oriented references section.

Insert: The following new Informative references section.

Informative references

Attention is drawn to the following places, which may be of interest for search:

Making multi-layered products between preformed layers in general	B29C39/126
Spacing elements for window units comprising two or more parallel panes	E06B3/663

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3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
F	B32B 17/064	B32B 17/10, B32B 17/10005, B32B17/10009, B32B17/10018, B32B17/10027, B32B17/10036, B32B17/10045, B32B17/10055, B32B17/10064, B32B17/10073, B32B17/10082, B32B17/10091, B32B17/101, B32B17/1011, B32B17/10119, B32B17/10128, B32B17/10137, B32B17/10146, B32B17/10155, B32B17/10165, B32B17/10174, B32B17/10183, B32B17/10192, B32B17/10201, B32B17/10211, B32B17/1022, B32B17/10229, B32B17/10238, B32B17/10247, B32B17/10256, B32B17/10266, B32B17/10275, B32B17/10284, B32B17/10293, B32B17/10302, B32B17/10311, B32B17/10321, B32B17/1033, B32B17/10339, B32B17/10348, B32B17/10357, B32B17/10366, B32B17/10376, B32B17/10385, B32B17/10394, B32B17/10403, B32B17/10412, B32B17/10422, B32B17/10431,

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<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
		B32B17/1044, B32B17/10449, B32B17/10458, B32B17/10467, B32B17/10477, B32B17/10486, B32B17/10495, B32B17/10504, B32B17/10513, B32B17/10522, B32B17/10532, B32B17/10541, B32B17/1055, B32B17/10559, B32B17/10568, B32B17/10577, B32B17/10587, B32B17/10596, B32B17/10605, B32B17/10614, B32B17/10623, B32B17/10633, B32B17/10642, B32B17/10651, B32B17/1066, B32B17/10669, B32B17/10678, B32B17/10688, B32B17/10697, B32B17/10706, B32B17/10715, B32B17/10724, B32B17/10733, B32B17/10743, B32B17/10752, B32B17/10761, B32B17/1077, B32B17/10779, B32B17/10788, B32B17/10798, B32B17/10807, B32B17/10816, B32B17/10825, B32B17/10834, B32B17/10844, B32B17/10853, B32B17/10862, B32B17/10871, B32B17/1088, B32B17/10889, B32B17/10899, B32B17/10908,

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<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
		B32B17/10917, B32B17/10926, B32B17/10935, B32B17/10944, B32B17/10954, B32B17/10963, B32B17/10972, B32B17/10981, B32B17/1099
C	B32B 17/10	B32B17/10, B32B17/10005, B32B17/10009, B32B17/10018, B32B17/10027, B32B17/10036, B32B17/10045, B32B17/10055, B32B17/10064, B32B17/10073, B32B17/10082, B32B17/10091, B32B17/101, B32B17/1011, B32B17/10119, B32B17/10128, B32B17/10137, B32B17/10146, B32B17/10155, B32B17/10165, B32B17/10174, B32B17/10183, B32B17/10192, B32B17/10201, B32B17/10211, B32B17/1022, B32B17/10229, B32B17/10238, B32B17/10247, B32B17/10256, B32B17/10266, B32B17/10275, B32B17/10284, B32B17/10293, B32B17/10302, B32B17/10311, B32B17/10321, B32B17/1033, B32B17/10339, B32B17/10348, B32B17/10357, B32B17/10366, B32B17/10376,

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<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
		B32B17/10385, B32B17/10394, B32B17/10403, B32B17/10412, B32B17/10422, B32B17/10431, B32B17/1044, B32B17/10449, B32B17/10458, B32B17/10467, B32B17/10477, B32B17/10486, B32B17/10495, B32B17/10504, B32B17/10513, B32B17/10522, B32B17/10532, B32B17/10541, B32B17/1055, B32B17/10559, B32B17/10568, B32B17/10577, B32B17/10587, B32B17/10596, B32B17/10605, B32B17/10614, B32B17/10623, B32B17/10633, B32B17/10642, B32B17/10651, B32B17/1066, B32B17/10669, B32B17/10678, B32B17/10688, B32B17/10697, B32B17/10706, B32B17/10715, B32B17/10724, B32B17/10733, B32B17/10743, B32B17/10752, B32B17/10761, B32B17/1077, B32B17/10779, B32B17/10788, B32B17/10798, B32B17/10807, B32B17/10816, B32B17/10825, B32B17/10834, B32B17/10844, B32B17/10853,

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<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
		B32B17/10862, B32B17/10871, B32B17/1088, B32B17/10889, B32B17/10899, B32B17/10908, B32B17/10917, B32B17/10926, B32B17/10935, B32B17/10944, B32B17/10954, B32B17/10963, B32B17/10972, B32B17/10981, B32B17/1099

* C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed.

NOTES:

- Only C, D, F, and Q type entries are included in the table above.
- When multiple symbols are included in the “To” column, do not use ranges of symbols.
- For administrative transfer of documents, the following text should be used: “< administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or < administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“To”) symbol, however it is required to specify “<no transfer>” in the “To” column for such cases.
- RCL is not needed for finalisation projects.

CPC NOTICE OF CHANGES 1028

DATE: JANUARY 1, 2021

PROJECT RP0266

4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B32B 17/10005	B32B 17/10	New

*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with “NEW.”
- For an existing CPC main trunk entry or indexing entry where the existing IPC symbol needs to be changed, provide an updated IPC symbol and complete the Action column with “UPDATED.”
- For a (D) CPC entry or indexing entry complete the Action column with “DELETE.” IPC symbol does not need to be included in the IPC column.
- For an (N) 2000 series CPC entry which is positioned within the main trunk scheme (breakdown code) provide an IPC symbol and complete the action column with “NEW”.
- For an (N) 2000 series CPC entry positioned at the end of the CPC scheme (orthogonal code), with no IPC equivalent, complete the IPC column with “CPCONLY” and complete the action column with “NEW”.

NOTES:

- F symbols are not included in the CICL table above.
- T and M symbols are not included in the CICL table above unless a change to the existing IPC is desired.