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Glossary of terms

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

3D printing	Additive manufacturing where the buildup of successive layers of material includes the use of a printer-like device having a motor controlled head for dispensing materials that form the layers.
Stereolithography	Additive manufacturing technique where the successive layers of material are formed by selectively hardening regions of polymeric material successively applied to the structure, typically by the use of laser light.

Synonyms and Keywords

In patent documents the following abbreviations are often used:

SLS	Selective laser sintering
DTM	Desktop manufacturing
LOM	Laminated Object Modelling
3DP, 3D-printing	Three-dimensional printing
SFF	Solid Freeform Fabrication
FDM	Fused Deposition Modelling
3DD	Three-dimensional deposition
SDM	Selective Deposition Modelling
LDM	Layered deposition modelling
3DM	Three-dimensional modelling
BPM	Ballistic Particle Modelling

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B29C64/10

Relationship with other classification places

Additive manufacturing should obligatorily be further be classified in subclass [B33Y](#) irrespective of the process or material used.

B29C64/20

Definition statement

This place covers:

- Machines and systems for carrying out additive manufacturing methods to produce objects
- Subcombinations of machines that carry out additive manufacturing methods to produce objects
- Accessories for machines that carry out additive manufacturing methods. Accessories include things attachable to or used in conjunction with an additive manufacturing machine that have a direct association with the additive manufacturing machine, per se.

Relationships with other classification places

Auxiliary operations or equipment, e.g. for treating or handling the raw materials for additively manufacturing objects, are classified in [B29C64/30](#).

Additive manufacturing should obligatorily be further be classified in subclass [B33Y](#) irrespective of the process or material used.

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B29C64/30

Definition statement

This place covers:

The handling or treating of materials used in an additive manufacturing process, or the subsequent treating or handling of objects produced by an additive manufacturing process. Also covered are ancillary components or process steps not directly involving the additive manufacturing process or apparatus, per se, such as cleaning raw materials used in the additive manufacturing process, or recycling residual material from the manufacturing process.

Relationship with other classification places

Additive manufacturing should obligatorily be further be classified in subclass **B33Y** irrespective of the process or material used.

B29C64/386

Definition statement

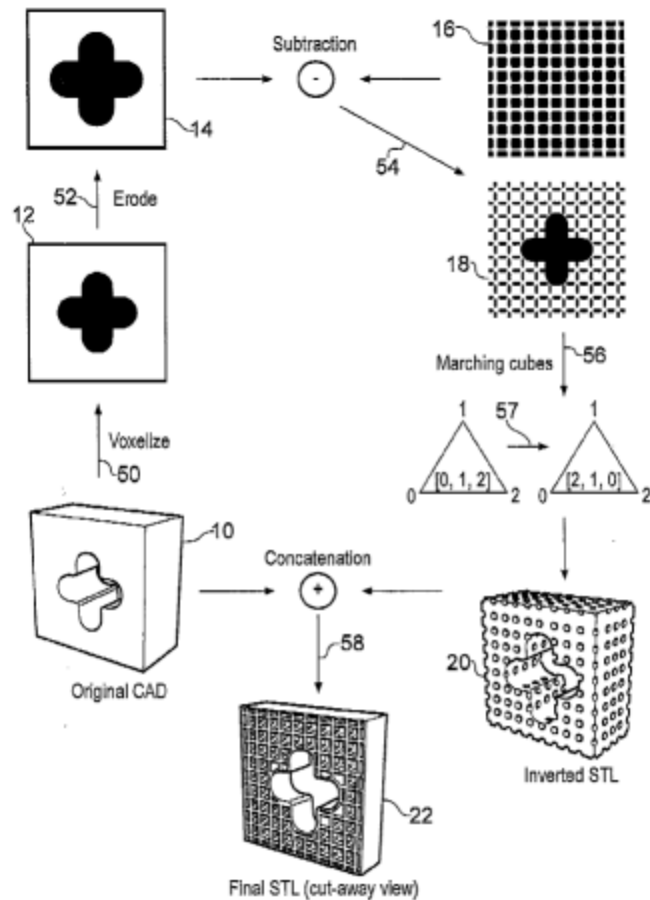
This place covers:

- Data processing aspects related to an object to be manufactured in an additive manufacturing process, specially adapted for processing of plastics or materials in a plastic state, not otherwise provided for, for example, combining together data from different sources to produce composite production data for said object to be made.
- Acquiring, sending, or receiving data that will be used in additive manufacturing, either internal or external to the additive manufacturing apparatus, specially adapted for processing of plastics or materials in a plastic state, not otherwise provided for.

Illustrative example of subject matter classified in this group:

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Relationship with other classification places

Additive manufacturing should obligatorily be further be classified in subclass [B33Y](#) irrespective of the process or material used.

B29C64/393

Definition statement

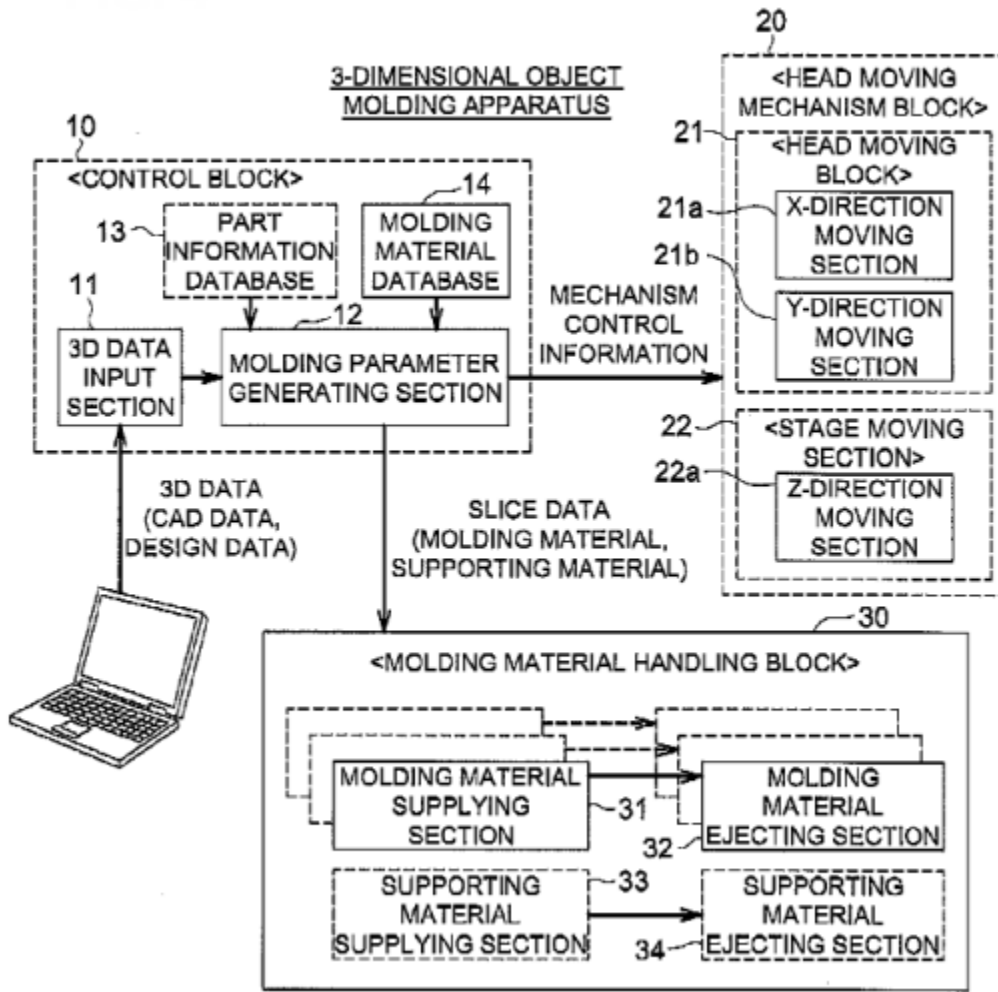
This place covers:

Data processing specially adapted for managing the additive manufacturing process performed by one or more additive manufacturing apparatuses, specially adapted for processing of plastics or materials in a plastic state, not otherwise provided for.

Illustrative example of subject matter classified in this group:

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Relationship with other classification places

Additive manufacturing should obligatorily be further be classified in subclass [B33Y](#) irrespective of the process or material used.

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2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
B29C67/0051	Definition		Delete the entire definition
B29C67/0055	symbol		Re-number to: B29C64/106
B29C67/0062	symbol		Re-number to: B29C64/124
B29C67/0066	symbol		Re-number to: B29C64/135
B29C67/007	symbol		Re-number to: B29C64/129
B29C67/0074	symbol		Re-number to: B29C64/141
B29C67/0077	symbol		Re-number to: B29C64/153
B29C67/0081	symbol		Re-number to: B29C64/165
B29C67/0088	Definition		Delete the entire definition
B29C67/0092	symbol		Re-number to: B29C64/40
B29C67/0096	Informative references	B08B4/00	Replace the existing symbol with the following: B08B3/04
B29C67/0096	symbol		Re-number to: B29C64/35

NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.

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3. REVISION CONCORDANCE LIST (RCL)

<u>Type*</u>	<u>From CPC Symbol (existing)</u>	<u>To CPC Symbol(s)</u>
Q	B29C64/00	B29C64/00, B29C64/10, B29C64/159, B29C64/171, B29C64/176, B29C64/182, B29C64/188, B29C64/194, B29C64/30, B29C64/307, B29C64/314, B29C64/321, B29C64/329, B29C64/336, B29C64/343, B29C64/364, B29C64/371, B29C64/379
Q	B29C64/106	B29C64/106, B29C64/118
Q	B29C64/141	B29C64/141, B29C64/147
Q	B29C64/20	B29C64/20, B29C64/205, B29C64/209, B29C64/214, B29C64/218, B29C64/223, B29C64/227, B29C64/232, B29C64/236, B29C64/241, B29C64/245, B29C64/25, B29C64/255, B29C64/259, B29C64/264, B29C64/268, B29C64/273, B29C64/277, B29C64/282, B29C64/286, B29C64/291, B29C64/295, B29C64/30, B29C64/307, B29C64/314, B29C64/321, B29C64/329, B29C64/336, B29C64/343, B29C64/364, B29C64/371, B29C64/379
Q	B29C64/35	B29C64/35, B29C64/357
Q	B29C64/386	B29C64/386, B29C64/393
D	B29C67/0051	<Administrative transfer to B29C64/00>
D	B29C67/0055	<Administrative transfer to B29C64/106>
D	B29C67/0059	<Administrative transfer to B29C64/112>
D	B29C67/0062	<Administrative transfer to B29C64/124>
D	B29C67/0066	<Administrative transfer to B29C64/135>
D	B29C67/007	<Administrative transfer to B29C64/129>
D	B29C67/0074	<Administrative transfer to B29C64/141>
D	B29C67/0077	<Administrative transfer to B29C64/153>
D	B29C67/0081	<Administrative transfer to B29C64/165>
D	B29C67/0085	<Administrative transfer to B29C64/20>
D	B29C67/0088	<Administrative transfer to B29C64/386>
D	B29C67/0092	<Administrative transfer to B29C64/40>
D	B29C67/0096	<Administrative transfer to B29C64/35>

* 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.

NOTES:

- Only C, D, and Q type entries are included in the table above.
- When multiple symbols are included in the “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>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

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

<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C64/00	B29C64/00	NEW
B29C64/10	B29C64/10	NEW
B29C64/106	B29C64/106	NEW
B29C64/112	B29C64/112	NEW
B29C64/118	B29C64/118	NEW
B29C64/124	B29C64/124	NEW
B29C64/129	B29C64/129	NEW
B29C64/135	B29C64/135	NEW
B29C64/141	B29C64/141	NEW
B29C64/147	B29C64/147	NEW
B29C64/153	B29C64/153	NEW
B29C64/159	B29C64/159	NEW
B29C64/165	B29C64/165	NEW
B29C64/171	B29C64/171	NEW
B29C64/176	B29C64/176	NEW
B29C64/182	B29C64/182	NEW
B29C64/188	B29C64/188	NEW
B29C64/194	B29C64/194	NEW
B29C64/20	B29C64/20	NEW
B29C64/205	B29C64/205	NEW
B29C64/209	B29C64/209	NEW
B29C64/214	B29C64/214	NEW
B29C64/218	B29C64/218	NEW
B29C64/223	B29C64/223	NEW
B29C64/227	B29C64/227	NEW
B29C64/232	B29C64/232	NEW
B29C64/236	B29C64/236	NEW
B29C64/241	B29C64/241	NEW
B29C64/245	B29C64/245	NEW
B29C64/25	B29C64/25	NEW
B29C64/255	B29C64/255	NEW
B29C64/259	B29C64/259	NEW
B29C64/264	B29C64/264	NEW
B29C64/268	B29C64/268	NEW
B29C64/273	B29C64/273	NEW
B29C64/277	B29C64/277	NEW
B29C64/282	B29C64/282	NEW
B29C64/286	B29C64/286	NEW
B29C64/291	B29C64/291	NEW
B29C64/295	B29C64/295	NEW
B29C64/30	B29C64/30	NEW
B29C64/307	B29C64/307	NEW

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<u>CPC</u>	<u>IPC</u>	<u>Action*</u>
B29C64/314	B29C64/314	NEW
B29C64/321	B29C64/321	NEW
B29C64/329	B29C64/329	NEW
B29C64/336	B29C64/336	NEW
B29C64/343	B29C64/343	NEW
B29C64/35	B29C64/35	NEW
B29C64/357	B29C64/357	NEW
B29C64/364	B29C64/364	NEW
B29C64/371	B29C64/371	NEW
B29C64/379	B29C64/379	NEW
B29C64/386	B29C64/386	NEW
B29C64/393	B29C64/393	NEW
B29C64/40	B29C64/40	NEW
B29C67/0051		DELETE
B29C67/0055		DELETE
B29C67/0059		DELETE
B29C67/0062		DELETE
B29C67/0066		DELETE
B29C67/007		DELETE
B29C67/0074		DELETE
B29C67/0077		DELETE
B29C67/0081		DELETE
B29C67/0085		DELETE
B29C67/0088		DELETE
B29C67/0092		DELETE
B29C67/0096		DELETE

*Action column:

- For an (N) or (Q) entry, provide an IPC symbol and complete the Action column with “.”
- 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 “”.
- 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 “”.

NOTES:

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

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5. CROSS-REFERENCE LIST (CRL)

Scheme references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Action; New reference symbol; New text</u>
B22F3/1055	B29C67/0077	B29C64/153
B28B1/001	B29C67/0051	B29C64/00
B29C35/08	B29C67/0051	B29C64/00
B41J 3/4073	B29C67/0059	B29C64/112

Definitions references impacted by this revision project

<u>Location of reference to be changed</u>	<u>Referenced subclass or group to be changed</u>	<u>Section of definition</u>	<u>Action; New reference symbol; New text</u>
B22F3/105	B29C67/0051	Limiting references	B29C64/00
B23K26/00	B29C 67/0051	Limiting references	B29C 64/00
B28B7/465	B29C67/0081	Informative references	B29C64/165
B29B13/007	B29C67/0077	Limiting references	B29C64/153
B33Y	B29C67/0051	Informative references	B29C64/00
B41J	B29C67/0059	Limiting references	B29C64/112
B41J3/4073		Limiting references	Insert the following new row into the Limiting references table: Building up a 3D object using individual droplets from jetting heads B29C64/112
B41J3/4073		Informative references	Delete
B41M3/00	B29C 67/0051	Limiting references	B29C 64/00
C04B2235/6026	B29C67/0051, B29C67/0051 and subgroups	Informative references	B29C64/00
C04B2235/665	B29C67/0077, B29C67/0077	Informative references	B29C64/00
H01J37/3174	B29C67/0051	Informative references	B29C64/00

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NOTES:

- The CRL tables above are used for changes to locations **outside** of the project scope. Changes to references in scheme titles or definitions **inside** the project scope will be reflected in the “scheme change” template or one of the “definition” templates.
- In addition to other changes proposed in the tables above, in the column titled “Referenced subclass or group to be changed,” **referenced** D symbols should indicate an action of “delete” or should indicate a replacement symbol and **referenced** F symbols should indicate a replacement symbol.
- When a reference is deleted, text related to that reference will also be deleted unless other references or a range of references associated with the same text remain.