### 574: Scope note/range clarification for E80 and P112

#### P112 diminished (was diminished by) update

##### OLD

**P112 diminished (was diminished by)**

Domain:

[E80](#_toc8567) Part Removal

Range:

[E24](#_toc7749) Physical Human-Made Thing

Subproperty of:

[E11](#_toc7519) Modification. [P31](#_toc9381) has modified (was modified by): [E18](#_heading=h.2dlolyb) Physical Thing

Quantification:

many to many, necessary (1,n:0,n)

Scope note:

This property identifies the instance E24 Physical Human-Made Thing that was diminished by an instance of E80 Part Removal.

Although an instance of E80 Part removal activity normally concerns only one instance of E24 Physical Human-Made Thing, it is possible to imagine circumstances under which more than one item might be diminished by a single instance of E80 Part Removal activity.

Examples:

* The coffin of Tut-Ankh-Amun (E22) *was* *diminished by* The opening of the coffin of Tut-Ankh-Amun (E80). (Carter, 2014)

In First Order Logic:

P112(x,y) ⇒ E80(x)

P112(x,y) ⇒ E24(y)

P112(x,y) ⇒ P31(x,y)

##### NEW

**P112 diminished (was diminished by)**

Domain:

[E80](#_toc8567) Part Removal

Range:

[E18](#_toc7749) Physical Thing

Subproperty of:

[E11](#_toc7519) Modification. [P31](#_toc9381) has modified (was modified by): [E18](#_heading=h.2dlolyb) Physical Thing

Quantification:

many to many, necessary (1,n:0,n)

Scope note:

This property identifies the instance [E18](#_toc7749) Physical Thing that was diminished by an instance of E80 Part Removal.

Although an instance of E80 Part removal activity normally concerns only one instance of [E18](#_toc7749) Physical Thing, it is possible to imagine circumstances under which more than one item might be diminished by a single instance of E80 Part Removal activity.

Examples:

* The coffin of Tut-Ankh-Amun (E22) *was* *diminished by* The opening of the coffin of Tut-Ankh-Amun (E80). (Carter, 2014)
* The coral of the Cocos Islands (E20) *was diminished* by The removal of the Porite coral specimen by Charles Darwin (E80).

In First Order Logic:

P112(x,y) ⇒ E80(x)

P112(x,y) ⇒ E18(y)

P112(x,y) ⇒ P31(x,y)

##### References:

<https://data.nhm.ac.uk/object/e1bfb1ab-e94e-4e0a-a13c-bc54e03f22e5>

<https://docs.google.com/document/d/1xgHEELikQwLBVdD84Mkka0p_rT8T9R7PhT4N3Uc7Wz8/edit>

#### E80 Part removal update

##### OLD

**E80 Part Removal**

Subclass of:

[E11](#_toc7535) Modification

Scope note:

This class comprises the activities that result in an instance of E18 Physical Thing being decreased by the removal of a part.

Typical scenarios include the detachment of an accessory, the removal of a component or part of a composite object, or the deaccessioning of an object from a curated collection, an instance of E78 Curated Holding. If the instance of E80 Part Removal results in the total decomposition of the original object into pieces, such that the whole ceases to exist, the activity should instead be modelled as an instance of E81 Transformation, i.e., a simultaneous destruction and production. In cases where the part removed has no discernible identity prior to its removal but does have an identity subsequent to its removal, the activity should be modelled as both an instance of E80 Part Removal and E12 Production. This class of activities forms a basis for reasoning about the history, and continuity of identity over time, of objects that are removed from other objects, such as precious gemstones being extracted from different items of jewellry, or cultural artifacts being deaccessioned from different museum collections over their lifespan.

Examples:

* the removal of the engine from my car (fictitious)
* the disposal of object number 1976:234 from the collection (fictitious)

In First Order Logic:

E80(x) ⇒ E11(x)

Properties:

[P112](#_toc10672) diminished (was diminished by): [E24](#_toc7765) Physical Human-Made Thing

[P113](#_toc10690) removed (was removed by): [E18](#_toc7666) Physical Thing

##### NEW

**E80 Part Removal**

Subclass of:

[E11](#_toc7535) Modification

Scope note:

This class comprises the activities that result in an instance of E18 Physical Thing being decreased by the removal of a part.

Typical scenarios include the detachment of an accessory, the removal of a component or part of a composite object, or the deaccessioning of an object from a curated collection, an instance of E78 Curated Holding. If the instance of E80 Part Removal results in the total decomposition of the original object into pieces, such that the whole ceases to exist, the activity should instead be modelled as an instance of E81 Transformation, i.e., a simultaneous destruction and production. In cases where the part removed has no discernible identity prior to its removal but does have an identity subsequent to its removal, the activity should be modelled as both an instance of E80 Part Removal and E12 Production. This class of activities forms a basis for reasoning about the history, and continuity of identity over time, of objects that are removed from other objects, such as precious gemstones being extracted from different items of jewellry, or cultural artifacts being deaccessioned from different museum collections over their lifespan.

Examples:

* the removal of the Porite coral specimen from the Cocos Islands by Charles Darwin in April 1836
* the removal of the engine from my car (fictitious)
* the disposal of object number 1976:234 from the collection (fictitious)

In First Order Logic:

E80(x) ⇒ E11(x)

Properties:

[P112](#_toc10672) diminished (was diminished by): [E18](#_toc7765) Physical Thing

[P113](#_toc10690) removed (was removed by): [E18](#_toc7666) Physical Thing

#### P110 augmented (was augmented) update

##### OLD

**P110 augmented (was augmented by)**

Domain:

[E79](#_toc8553) Part Addition

Range:

E24 Physical Human-Made Thing

Subproperty of:

E11 Modification. P31 has modified (was modified by): E18 Physical Thing

Quantification:

many to many, necessary (1,n:0,n)

Scope note:

This property identifies the instance of E24 Physical Human-Made Thing that is added to (augmented) in an instance of E79 Part Addition.

Although an instance of E79 Part Addition event normally concerns only one instance of E24 Physical Human-Made Thing, it is possible to imagine circumstances under which more than one item might be added to (augmented). For example, the artist Jackson Pollock trailing paint onto multiple canvasses.

Examples:

* The final nail-insertion Event (E79) *augmented* Coffin of George VI (E22). (https://www.rct.uk/collection/2000811/the-coffin-of-king-george-vi-during-the-lying-in-state)

In First Order Logic:

P110(x,y) ⇒ E79(x)

P110(x,y) ⇒ E24(y)

P110(x,y) ⇒ P31(x,y)

##### NEW

**P110 augmented (was augmented by)**

Domain:

[E79](#_toc8553) Part Addition

Range:

E18 Physical Thing

Subproperty of:

E11 Modification. P31 has modified (was modified by): E18 Physical Thing

Quantification:

many to many, necessary (1,n:0,n)

Scope note:

This property identifies the instance of E18 Physical Thing that is added to (augmented) in an instance of E79 Part Addition.

Although an instance of E79 Part Addition event normally concerns only one instance of E24 Physical Human-Made Thing, it is possible to imagine circumstances under which more than one item might be added to (augmented). For example, the artist Jackson Pollock trailing paint onto multiple canvasses.

Examples:

* The final nail-insertion Event (E79) *augmented* Coffin of George VI (E22). (https://www.rct.uk/collection/2000811/the-coffin-of-king-george-vi-during-the-lying-in-state)
* The attachment of the bronze hand of the Alpi Marittime sculpture (E79) *augmented* the tree of the Alpi Marittime sculpture (E20). (Pennone, 1968)

In First Order Logic:

P110(x,y) ⇒ E79(x)

P110(x,y) ⇒ E18(y)

P110(x,y) ⇒ P31(x,y)

##### References:

<https://giuseppepenone.com/en/words/maritime-alps>

#### E79 Part Addition update

##### OLD

**E79 Part Addition**

Subclass of:

[E11](#_toc7535) Modification

Scope note:

This class comprises activities that result in an instance of E24 Physical Human-Made Thing being increased, enlarged or augmented by the addition of a part.

Typical scenarios include the attachment of an accessory, the integration of a component, the addition of an element to an aggregate object, or the accessioning of an object into a curated instance of E78 Curated Holding. Objects to which parts are added are, by definition, human-made, since the addition of a part implies a human activity. Following the addition of parts, the resulting human-made assemblages are treated objectively as single identifiable wholes, made up of constituent or component parts bound together either physically (for example the engine becoming a part of the car), or by sharing a common purpose (such as the 32 chess pieces that make up a chess set). This class of activities forms a basis for reasoning about the history and continuity of identity of objects that are integrated into other objects over time, such as precious gemstones being repeatedly incorporated into different items of jewellery, or cultural artifacts being added to different museum instances of E78 Curated Holding over their lifespan.

Examples:

* the setting of the Koh-I-Noor diamond into the crown of Queen Elizabeth the Queen Mother (Dalrymple, 2017)
* the addition of the painting “Room in Brooklyn” by Edward Hopper to the collection of the Museum of Fine Arts, Boston

In First Order Logic:

E79(x) ⇒ E11(x)

Properties:

[P110](#_toc10637) augmented (was augmented by): [E24](#_toc7765) Physical Human-Made Thing

[P111](#_toc10655) added (was added by): [E18](#_toc7666) Physical Thing

##### NEW

**E79 Part Addition**

Subclass of:

[E11](#_toc7535) Modification

Scope note:

This class comprises activities that result in an instance of E18 Physical Thing being increased, enlarged or augmented by the addition of a part.

Typical scenarios include the attachment of an accessory, the integration of a component, the addition of an element to an aggregate object, or the accessioning of an object into a curated instance of E78 Curated Holding. Objects to which parts are added are, by definition, human-made, since the addition of a part implies a human activity. Following the addition of parts, the resulting human-made assemblages are treated objectively as single identifiable wholes, made up of constituent or component parts bound together either physically (for example the engine becoming a part of the car), or by sharing a common purpose (such as the 32 chess pieces that make up a chess set). This class of activities forms a basis for reasoning about the history and continuity of identity of objects that are integrated into other objects over time, such as precious gemstones being repeatedly incorporated into different items of jewellery, or cultural artifacts being added to different museum instances of E78 Curated Holding over their lifespan.

Examples:

* the setting of the Koh-I-Noor diamond into the crown of Queen Elizabeth the Queen Mother (Dalrymple, 2017)
* the addition of the painting “Room in Brooklyn” by Edward Hopper to the collection of the Museum of Fine Arts, Boston
* the attachment of the bronze hand on the tree forming the Alpi Marittime (Pennone, 1968)

In First Order Logic:

E79(x) ⇒ E11(x)

Properties:

[P110](#_toc10637) augmented (was augmented by): [E18](#_toc7666) Physical Thing

[P111](#_toc10655) added (was added by): [E18](#_toc7666) Physical Thing

#### References:

<https://giuseppepenone.com/en/words/maritime-alps>