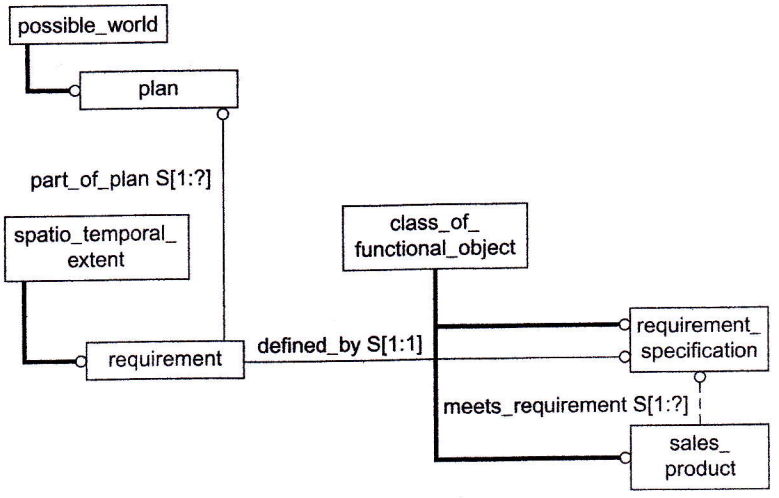

Figure 15-6 Requirements specification and sales product.

15.2.2 A Data Model for Requirement and Requirement Specification

Figure 15-6 shows the data model for **requirement**, **requirement_specification**, and **sales_product**. I have left out some subtype/supertype relationships and some intervening entity types in the subtype/supertype network.

A **plan** is a **possible_world** that some **party** would like to bring about.

A **requirement** is a **spatio_temporal_extent** that is *part_of_plan* of at least one **plan** and is *defined_by* exactly one **requirement_specification**, where the *part_of_plan* relationship type is a subtype of the *part_of* relationship type and the *defined_by* relationship type is a subtype of the *member_of* relationship type.

A **requirement_specification** is a **class_of_functional_object** that is the set of possible **functional_objects** that meet the specification.

15.2.3 Requirement Specifications

In the preceding overview, I said that there was a **requirement_specification** that any possible **functional_object** that met the specification was a member of, but that did not say much about what the specification was. I will cover this here.

A specification is a collection of individual elements, each of which is a class that each object that meets the specification is a member of. So the specification itself is the intersection of these