Algorithm 7 Inheritance from patent class axioms to son classes

1: procedure Get Parent class
2:    loadontology(ontology);
3:    class parent = getSuperClass();
4:    getSubclasses(parent);
5:    function getSubclasses(parent)
6:        List equivalentClasses = getEquivalentClass(parent);
7:        Iterator subClasses = getSubclasses(parent);
8:        while subClasses.hasNext() do
9:            create List empty AxiomsList;
10:           List equivalentClassList = getEquivalentClass(subClasses);
11:           while equivalentClassList.hasNext() do
12:              if equivalentClass is intersectionOf then
13:                  addToAxiomList(decomposeIntersectionAxioms(equivalentClass));
14:              end if
15:              if equivalentClass is not intersectionOf then
16:                  addToAxiomList(equivalentClass);
17:              end if
18:           end while
19:           if addToAxiomList != null then
20:               subClasses.addEquivalentClassList.createIntersection(addToAxiomList);
21:           end if
22:        getSubclasses(parent)
23:    end function
24: end procedure