```
nil_is_append  THM

⊢  ∀T:Type, l1,l2:T List. nil = (l1 @ l2) ⟺ l1 = nil & l2 = nil
  by UnivCD THEN (AssertBY (nil = (l1 @ l2) ⟺ (l1 @ l2) = nil) Auto)
     THEN
     (RW (SweepDnC (HypC -1)) 0)
     THEN
     (RWO
      Thm* ∀l1,l2:T List. (l1 @ l2) = nil ⟺ l1 = nil & l2 = nil
      {append_is_nil}
      0)
END
```