```
decidable__l_member_paren  THM

⊢  ∀T:Type.
|  (∀x,y:T. Dec(x = y)) ⇒ (∀s:(T+T) List, i:T. Dec((inl(i) ∈ s)))
| by UnivCD
|    THEN
|    (BackThru
|     Thm* ∀x:T, l:T List. (∀y:T. Dec(x = y)) ⇒ Dec((x ∈ l))
|     {l_member_decidable})
|
1. T : Type
2. ∀x,y:T. Dec(x = y)
3. (T+T) List
4. i : T
⊢  ∀y:T+T. Dec(inl(i) = y)  by UnivCD
|
1. T : Type
2. ∀x,y:T. Dec(x = y)
3. (T+T) List
4. i : T
5. y : T+T
⊢  Dec(inl(i) = y)  by Analyze -1
|
|\
| 1. T : Type
| 2. ∀x,y:T. Dec(x = y)
| 3. (T+T) List
| 4. i : T
| 5. x : T
| ⊢  Dec(inl(i) = inl(x))  by (InstHyp [i;x] 2) THEN Obvious
|
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. 1. T : Type
. 2. ∀x,y:T. Dec(x = y)
. 3. (T+T) List
. 4. i : T
. 5. y1 : T
. ⊢  Dec(inl(i) = inr(y1))  by ObviousConcl
END
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