

Inference at *
of proof for Lemma implies_functionality_wrt_iff:

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 $\vdash \forall P_1, P_2, Q_1, Q_2 : \mathbb{P}. (P_1 \iff P_2) \Rightarrow (Q_1 \iff Q_2) \Rightarrow \{(P_1 \Rightarrow Q_1) \iff (P_2 \Rightarrow Q_2)\}$ 
  by ((((((Unfold 'guard' 0)
    CollapseTHEN (GenUnivCD)).)
    CollapseTHEN (HypBackchain)).
  )
  CollapseTHEN ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n)
    )) (first_tok :t) inil_term))).
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