

Inference at *
of proof for Lemma decidable_and:

$\vdash \forall P, Q : \mathbb{P}. \text{Dec}(P) \Rightarrow \text{Dec}(Q) \Rightarrow \text{Dec}(P \ \& \ Q)$
by ((TryOnAllClauses (Unfold 'decidable'))
CollapseTHEN ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))

1:

1. $P : \mathbb{P}$
 2. $Q : \mathbb{P}$
 3. $P \vee (\neg P)$
 4. $Q \vee (\neg Q)$
- $\vdash (P \ \& \ Q) \vee (\neg(P \ \& \ Q))$

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