Inference at $*$
of proof for Lemma decidable_iff:

$\vdash \forall P, Q{:}\mathbb{P}.\ \mathrm{Dec}(P) \Rightarrow \mathrm{Dec}(Q) \Rightarrow \mathrm{Dec}(P \iff Q)$
by ((Repeat (Unfolds "iff rev_implies" 0))
CollapseTHEN ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_102880_{decidable__iff}.html