Inference at $*$
of proof for Lemma iff_functionality_wrt_iff:

$\vdash \forall P_1, P_2, Q_1, Q_2{:}\mathbb{P}.\ (P_1 \iff P_2) \Rightarrow (Q_1 \iff Q_2) \Rightarrow ((P_1 \iff Q_1) \iff (P_2 \iff Q_2))$
by ((((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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http://www.nuprl.org/FDLcontent/p0_942988_/p121_99180_{iff_functionality_wrt_iff}.html