Inference at $*$
of proof for Lemma not_over_and:

$\vdash \forall A, B{:}\mathbb{P}.\ \mathrm{Dec}(A) \Rightarrow ((\neg(A\ \&\ B)) \iff ((\neg A) \vee (\neg B)))$
by ((GenRepD)
CollapseTHENA ((Auto_aux (first_nat 1:n) ((first_nat 1:n),(first_nat 3:n
)) (first_tok :t) inil_term)))·

1:

1. $A : \mathbb{P}$
2. $B : \mathbb{P}$
3. $\mathrm{Dec}(A)$
4. $\neg(A\ \&\ B)$

$\vdash (\neg A) \vee (\neg B)$

2:

1. $A : \mathbb{P}$
2. $B : \mathbb{P}$
3. $\mathrm{Dec}(A)$
4. $(\neg A) \vee (\neg B)$

$\vdash \neg(A\ \&\ B)$

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_100339_{not_over_and}.html