Inference at $*$ 2 1 1
of proof for Lemma dec_iff_ex_bvfun:

1. T : Type
2. E : $T \to T \to \mathbb{P}$
3. f : $T \to T \to \mathbb{B}$
4. $\forall x, y{:}T.\ (\uparrow(f(x,y))) \iff (E(x,y))$
5. x : T
6. y : T

$\vdash$ Dec($\uparrow(f(x,y))$)
by (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_78156_{dec_iff_ex_bvfun}2_1_1.html