Inference at $*$ 1
of proof for Lemma decidable_quotient_equal:

1. T : Type
2. E : $T \to T \to \mathbb{P}$
3. EquivRel(T;x,y.$E(x,y)$)
4. $\forall x$, y:T. Dec($E(x,y)$)
$\vdash \forall u$, v:(x,y:$T//E(x,y)$). Dec($u = v$)
by ((OnMCls [0;4] (RWO "dec_iff_ex_bvfun"))
CollapseTHENA ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

1:

4. $\exists f$:$T \to T \to \mathbb{B}$. ($\forall x$, y:T. ($\uparrow(x\ f\ y)$) $\iff$ $E(x,y)$)
$\vdash \exists f$:(x,y:$T//E(x,y)$)$\to$(x,y:$T//E(x,y)$)$\to \mathbb{B}$
($\forall u$, v:(x,y:$T//E(x,y)$). ($\uparrow(u\ f\ v)$) $\iff$ ($u = v$))
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