Inference at $*$ 1 1 1 2 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. f : $T \to T \to \mathbb{B}$
5. $\forall x, y{:}T.\ (\uparrow(x\ f\ y)) \iff E(x,y)$
6. $f \in (x,y{:}T//E(x,y)) \to (x,y{:}T//E(x,y)) \to \mathbb{B}$

$\vdash \forall u, v{:}(x,y{:}T//E(x,y)).\ (\uparrow(u\ f\ v)) \iff (u = v)$
 by ((((RepD)
 CollapseTHENM (CSquash))$\cdot$)
 CollapseTHENA ((Auto_aux (first_nat 1:n
) ((first_nat 1:n),(first_nat 3:n)) (first_tok :t) inil_term)))$\cdot$

 1:

 7. u : $x,y{:}T//E(x,y)$
 8. v : $x,y{:}T//E(x,y)$

 $\vdash \downarrow((\uparrow(u\ f\ v)) \iff (u = v))$

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