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

1. $a : \mathbb{B}$
2. $b : \mathbb{B}$
$\vdash \text{Dec}(a = b)$
 by ((Unfold 'decidable' 0)
 CollapseTHEN (AllBoolInd))·

   1:

    (no hyps)
    $\vdash (\text{tt} = \text{tt}) \vee (\neg(\text{tt} = \text{tt}))$
   2:

    (no hyps)
    $\vdash (\text{ff} = \text{tt}) \vee (\neg(\text{ff} = \text{tt}))$
   3:

    (no hyps)
    $\vdash (\text{tt} = \text{ff}) \vee (\neg(\text{tt} = \text{ff}))$
   4:

    (no hyps)
    $\vdash (\text{ff} = \text{ff}) \vee (\neg(\text{ff} = \text{ff}))$

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