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

1. $P : \mathbb{P}$
2. $Q : \mathbb{P}$
3. $P \vee (\neg P)$
4. $Q \vee (\neg Q)$

$\vdash (P \Rightarrow Q) \vee (\neg(P \Rightarrow Q))$
by ((D 3)
CollapseTHEN (D 4))·

1:

3. P
4. Q
$\vdash (P \Rightarrow Q) \vee (\neg(P \Rightarrow Q))$

2:

3. P
4. $\neg Q$
$\vdash (P \Rightarrow Q) \vee (\neg(P \Rightarrow Q))$

3:

3. $\neg P$
4. Q
$\vdash (P \Rightarrow Q) \vee (\neg(P \Rightarrow Q))$

4:

3. $\neg P$
4. $\neg Q$
$\vdash (P \Rightarrow Q) \vee (\neg(P \Rightarrow Q))$

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_103128_{decidable__implies}1.html