─────────── MODULE *HourClock* ───────────

EXTENDS *Naturals*

VARIABLES *hr*

$vars \triangleq \langle hr \rangle$

$HCIni \triangleq$ Global variables
$\qquad\qquad hr \in (1 .. 12)$

$HCnxt \triangleq hr' = $ IF $hr \neq 12$ THEN $hr + 1$ ELSE $1$

$HC \triangleq HCIni \wedge \Box[HCnxt]_{vars}$

$Spec \triangleq HC \wedge \mathrm{WF}_{vars}(HCnxt)$

$HourInRange \triangleq (hr \in 1 .. 12)$

THEOREM $Spec \Rightarrow \Box HourInRange$

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\ * Modification History
\ * Last modified *Wed Jun* 05 20:08:13 *CEST* 2019 by *Naxxo*
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1