$[DNI]$

$DINERO == \mathbb{Z}$

$MENS ::= ok \mid error1 \mid error2$

$$
\begin{array}{|l}
extMax, saldoMin : \mathbb{N} \\
\hline
extMax = 1000 \\
saldoMin = 10000
\end{array}
$$

---CajasAhorroBanco---
$ca : DNI \nrightarrow DINERO$

---ExtraerOk---
$\Delta CajasAhorroBanco$
$d? : DNI$
$m? : DINERO$
$rep! : MENS$

$d? \in \operatorname{dom} ca$
$m? > 0$
$m? \le ca(d?)$
$m? > extMax \Rightarrow ca(d?) > saldoMin$
$ca' = ca \oplus \{d? \mapsto ca(d?) - m?\}$
$rep! = ok$

---ExtraerE1---
$\Xi CajasAhorroBanco$
$d? : DNI$
$m? : DINERO$
$rep! : MENS$

$\neg\,(d? \in \operatorname{dom} ca \wedge m? \le ca(d?) \wedge m? > 0)$
$rep! = error1$

---ExtraerE2---
$\Xi CajasAhorroBanco$
$d? : DNI$
$m? : DINERO$
$rep! : MENS$

$d? \in \operatorname{dom} ca$
$\neg\,(m? > extMax \Rightarrow ca(d?) > saldoMin)$
$rep! = error2$

$Extraer == ExtraerOk \lor ExtraerE1 \lor ExtraerE2$