Timed Locked Transaction

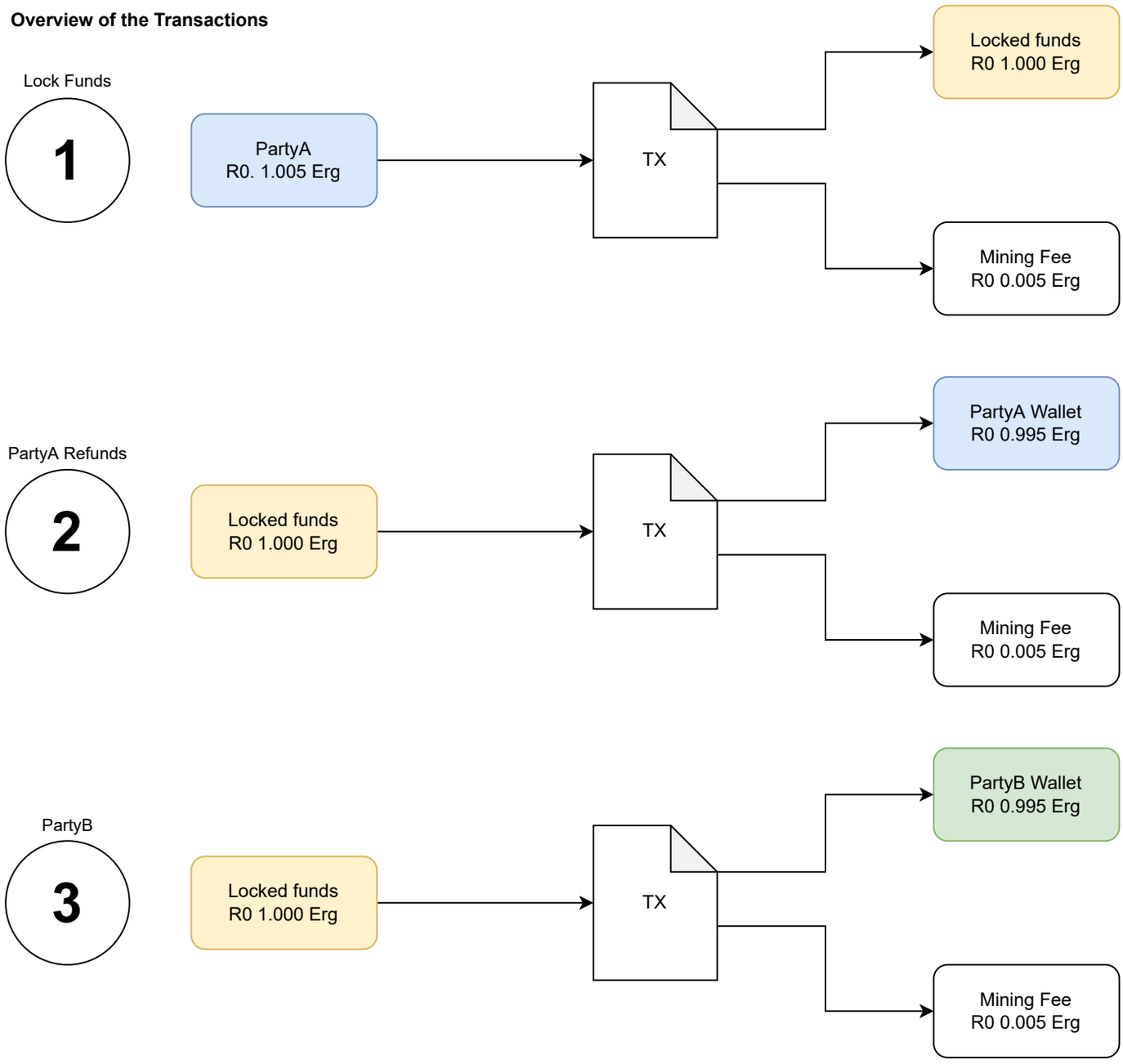
-The goal of this transaction is to hold back funds from 1 party untill a certain block height but have the option to refund your money until that height. A real life example would be paying someone to complete a task and releasing the funds after the expected completion date. If said person does not complete the task you refund the funds before they are released to them.

-Parties involved:5

PartyA = money sender

PartyB = receiving party

Overview of the Transactions



I believe this transaction would not need any registers besides the Guard script located in R1

The idea would that Party A could choose a time (Block Height) that they want to release the funds in for Party B to be able to spend them but before that time Party A would still be able to spend the box and send it back to their address.

From what I read we could add both parties public keys to the guard script with the height that would be the deadline.
While I am potentially wrong I have taken a shot at describing the main part of this below in code.
I attempted to give it about 30 days worth of block time.

```
val deadline = blockchainSim.getHeight + 21600
```

```
val lockedfundsScript = s""" (PartyA_PK && HEIGHT < deadline) || (PartyB_PK && HEIGHT > deadline) """.stripMargin
```