



Figure 5: Third step of encryption.

The third step involves adding transitions from  $\Sigma$  to those states in  $\mathcal{B}$ , which have undefined transitions for letters from  $\Sigma$ . In that case we add only  $b$  letters. For example we defined  $\rho(1a, b) = 2b$ . We should act similarly for all states, for which  $b$  is undefined, but we have only added some of the necessary transitions so the figure is readable.