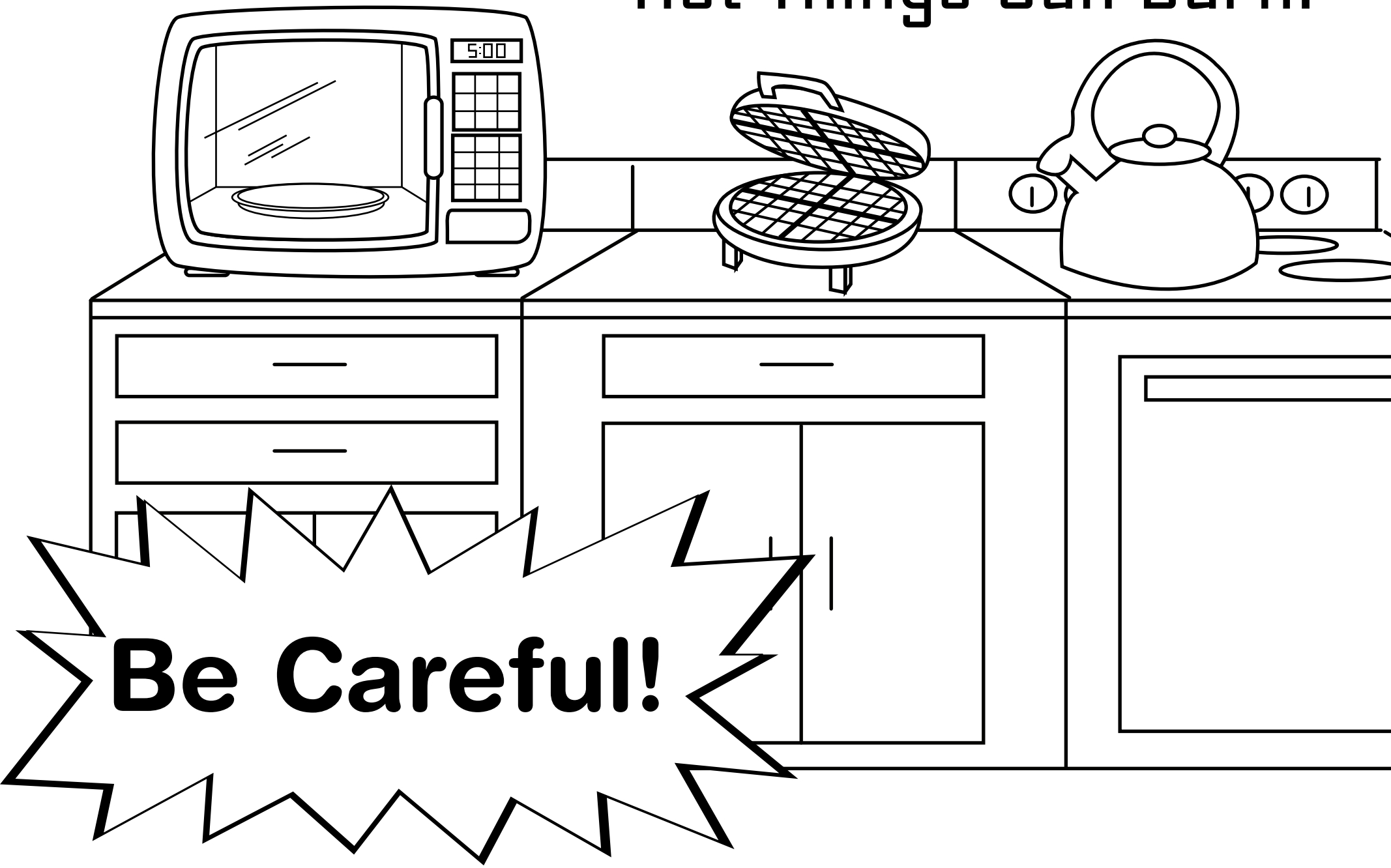Hot Things Can Burn!