

The Kirby Pillow Contraption

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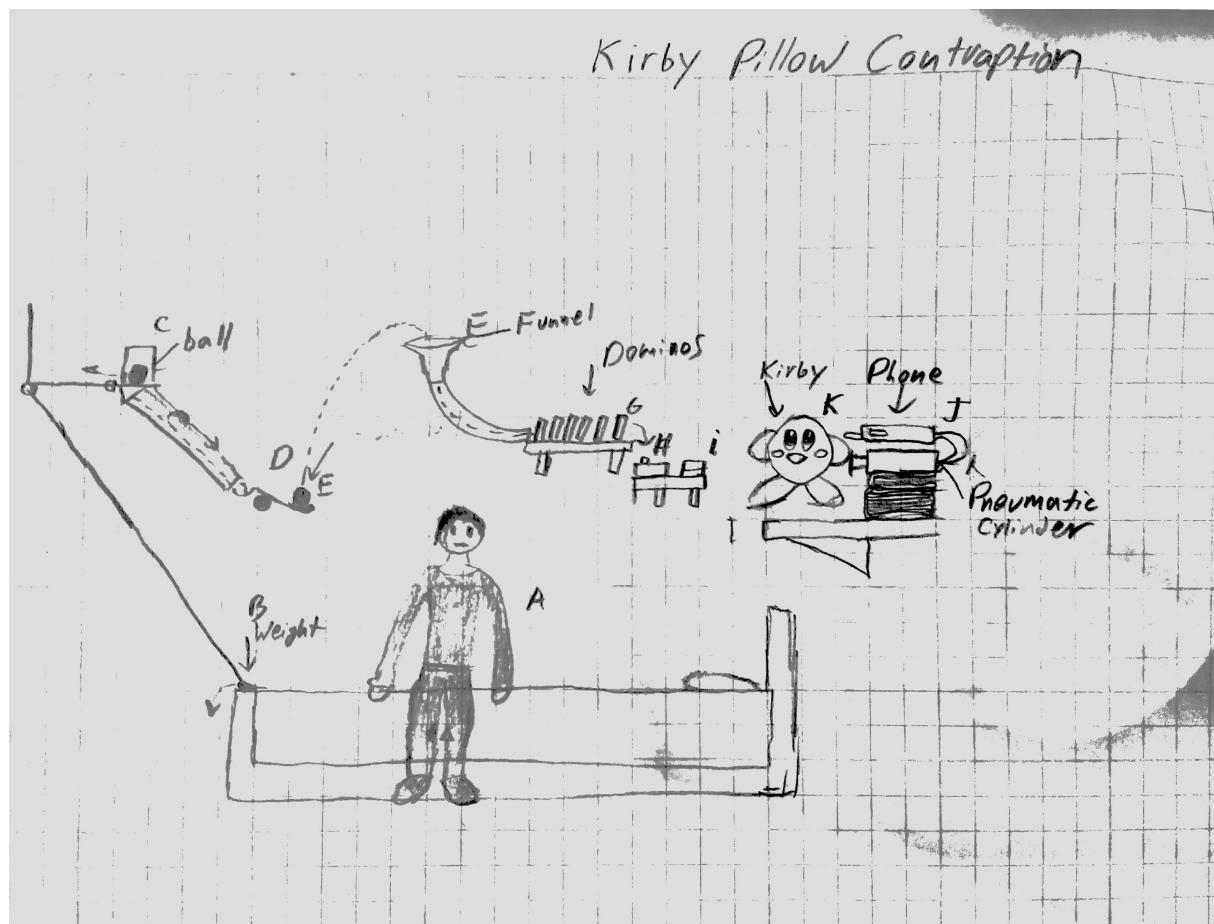
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The person (A) sits on the bed and causes the mattress to bend up which knocks the weight (B) to fall off. The weight falling off pulls the string which causes the platform to slide off releasing the ball (C) down the ramp. The ramp leads the ball to a catapult (D) which launches a second ball (E) into the funnel (F). The second ball is then led to knock down a domino which causes a chain of dominos to fall down until it knocks down the last one (G). The last one to fall will hit the play button on the tape recorder (H), which will play a recorded voice that says "Alexa, call home." That causes the Alexa device (I) to activate the command to call the persons home phone (J). The phone's motor that is used to vibrate is connected to the pneumatic cylinder which will turn on and push the plushie Kirby (K) onto the pillow area just as the person finishes laying down. He/She now has a comfortable pillow to use while sleeping.

For the first part of the contraption, the string is looped through a ring which allows the weights force to be transferred horizontally, pulling the platform from underneath the ball. The second part, the ramp's guide were created from a normal block of material with a half circle guide carved into the center lengthwise. This allows the ball to roll accurately to the catapult, successfully launching the second ball into the funnel. The third part of the contraption, the ball follows the funnels path with a plastic tube which leads it to the lined up dominos on the shelf. The falling dominos knock off the last domino which falls and hits the play button on the tape recorder, sitting on the shelf below it. The tape recorder plays a recorded voice command that is recieved by Alexa. Alexa, is an electronic device that is capable of recieving voice commands and make phone calls. Once Alexa makes the call, the home phone would normally vibrate but instead the wires that were attached to the motor is now attached to a pneumatic cylinder causing it to turn on and push the plushie Kirby off the shelf. The pneumatic cylinder and phone are lifted up by books.
(Note: The Alexa making phone calls is part of the new Alexa devices that Amazon announced having plans for.)