

Application No. 212: Catapult

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Hobbyists can now re-enact battles of the ancient world!



Unlike poles attract each other, like poles repel - and this repulsion can be used, like for instance with this catapult.

After watching a history movie about the siege of the Masada fort by the Roman army, I also wanted to build a catapult.

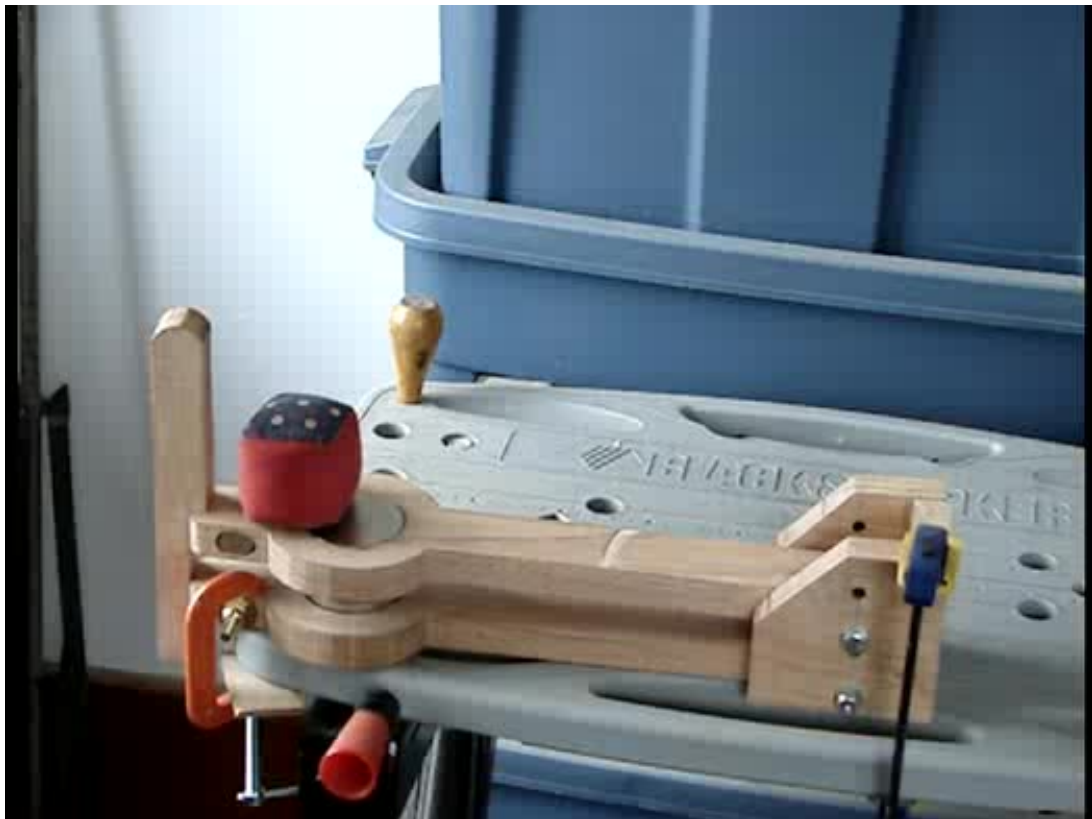
For this purpose, I used the strong repulsion of two 2x1 inch disc magnets.

I built this shooting device from red oak. On the left, near the magnets, I placed brass fittings and on the right I put steel nuts and bolts near the joint.

For "ammunition" I used juggling balls.



Damaged juggling balls



Video, 6.1 MB

The catapult shoots the juggling balls about 3 meters away! As you can see on the picture, the balls burst due to the strong impact.

I had a lot of fun with this little project.

Note from the supermagnete team: If you want to build this device with our magnets, we recommend two S-30-15-N (www.supermagnete.nl/eng/S-30-15-N) disc magnets or also S-30-10-N (www.supermagnete.nl/eng/S-30-10-N).

Articles used

2 x S-30-10-N (www.supermagnete.nl/eng/S-30-10-N)

2 x S-30-15-N (www.supermagnete.nl/eng/S-30-15-N)

Online since: 07/04/2009

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