

## Application No. 588: Garbage can lid holder

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### Keeps the lid of garbage cans open

I built a shelter for our garbage cans, so snow can't pile up on them in the winter, which makes them hard to open.

Often, you arrive at the garbage cans with both hands full of garbage bags and it's hard to keep the cans open to throw the bags in.



So, I screwed into the lid of each can a GTN-20 pot magnet with threaded stud ([www.supermagnete.de/eng/GTN-20](http://www.supermagnete.de/eng/GTN-20)). On the bottom of the lid the pot magnet is held by a screw nut.



Under the beam of the shelter I attached an old metal strip as counterpart for the magnets. Now, you can just lift the lid and the magnet snaps onto the metal and keeps it open.

The magnet attaches pretty well to the metal strip, but since the garbage can comes in and out of the shelter often, a flattened steel bar might work even better. This way, the can wouldn't have to be placed exactly under the thin metal strip.



The whole thing is really practical and I am happy about it every time I take out the trash.



Note:  
That's what the magnets look like after a year of outdoor use. It would be better to seal them with a shock-resistant varnish before you screw them on.



*Note from the supermagnete team:*

Officially, we discourage using neodymium magnets outdoors, because it damages them. See safety information for neodymium magnets ([www.supermagnete.de/eng/safety-neodymium](http://www.supermagnete.de/eng/safety-neodymium)). You'll have to replace the pot magnets periodically.

As an alternative you will find some ferrite pot magnets ([www.supermagnete.de/eng/group/pot\\_countersunk\\_ferrite](http://www.supermagnete.de/eng/group/pot_countersunk_ferrite)) linked below, which are completely waterproof, but have a lower holding force.

### Articles used

GTN-20: Neodymium pot magnet Ø 20 mm with threaded stud ([www.supermagnete.de/eng/GTN-20](http://www.supermagnete.de/eng/GTN-20))

MD-23: metal discs with countersunk hole Ø 23 mm ([www.supermagnete.de/eng/MD-23](http://www.supermagnete.de/eng/MD-23))

MSD-21: metal discs with an edge and countersunk hole M3 ([www.supermagnete.de/eng/MSD-21](http://www.supermagnete.de/eng/MSD-21))

GTNG-43: neodymium magnet system Ø 43 mm black rubber-coated with threaded stud ([www.supermagnete.de/eng/GTNG-43](http://www.supermagnete.de/eng/GTNG-43))

CSF-40: Ferrite pot magnet ([www.supermagnete.de/eng/CSF-40](http://www.supermagnete.de/eng/CSF-40))

CSF-25: Ferrite pot magnet ([www.supermagnete.de/eng/CSF-25](http://www.supermagnete.de/eng/CSF-25))

ITF-25: ferrite pot magnet with internal thread M4 ([www.supermagnete.de/eng/ITF-25](http://www.supermagnete.de/eng/ITF-25))

ITF-32: ferrite pot magnet with internal thread M4 ([www.supermagnete.de/eng/ITF-32](http://www.supermagnete.de/eng/ITF-32))

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