Pet Hair Brush

Presented by: Group C

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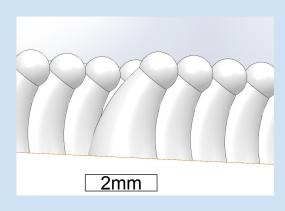
Pet Owners

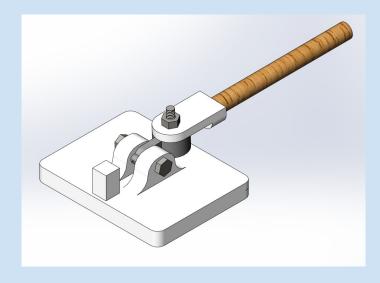
- Many existing brushes just aren't good enough, and pet hair can be a mess
- Pet can be hard to brush
- It is difficult to clean up all the fur
- Need fast, easy, safe, and affordable products

Competitive Advantages

- Unique bristles imitate cat papillae
- Hinge aims to better conform to pet
- Spring acts to keep the brush in its centered position

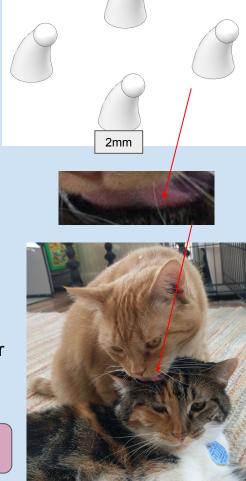






Grand Concept

- Pet brush uses unique biomimetic bristles and swivelling hinge to improve ease of use
- Cats use papillae, small keratin spines embedded in their tongue, to clean their fur
- Hinge (similar to those found in razors) allows flat brush to conform to pet
- Small strip of steel serves as a spring to keep the brush in its centered orientation

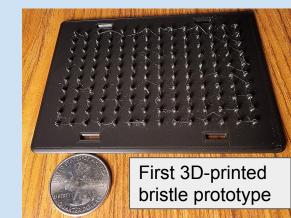


Papilla

Fur

Prototyping Plan

- Unique bristles iterated quickly using additive manufacturing
- Scalable to injection molding for production volumes
- Brush handle and body use simple materials (bolts, wood dowel, etc.) for low-cost testing
- Testing of brushing efficacy, ease of cleaning, and bristle durability



Reference

[1] HERTZKO. "HERTZKO self-cleaning slicker brush for dogs and cats pet grooming dematting brush easily removes mats, tangles, and loose fur from the pet's coat (original)." Amazon.com, https://www.amazon.com/dp/B00ZGPI30Y/ (accessed Mar. 31, 2022).