

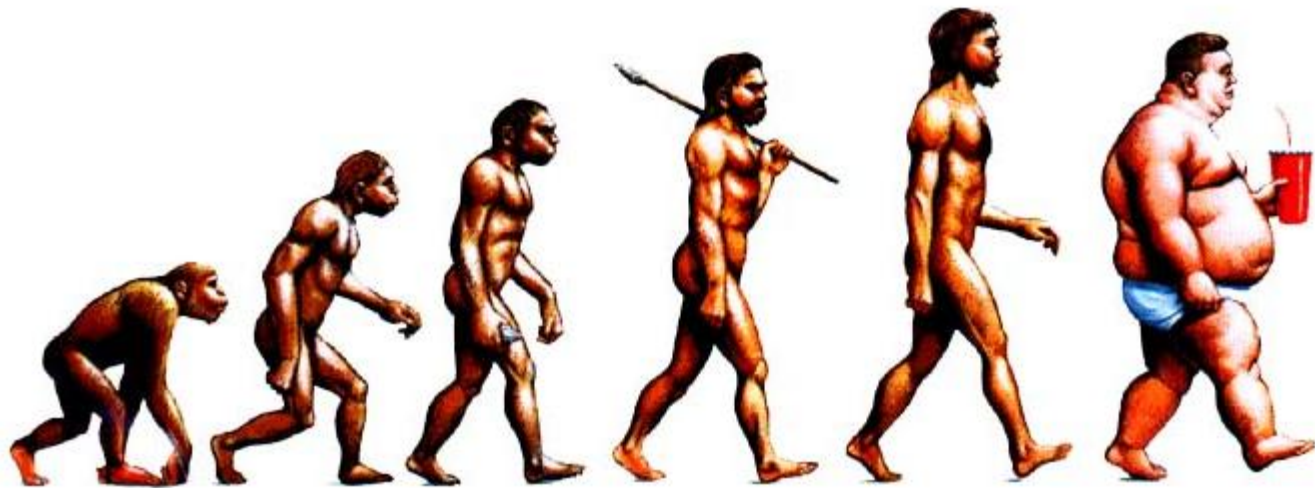
Unnatural Selection

Searching for Difference

Francis A. Bitonti



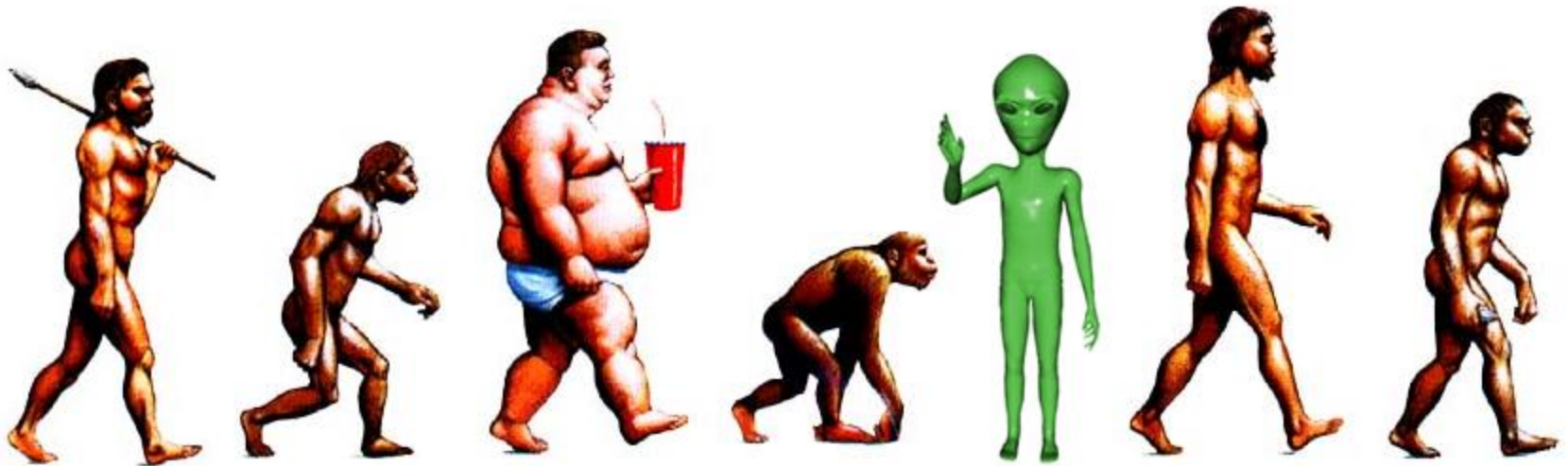
Enumerating: (reorganizing history)



Evolution cartoon.
Artist Unknown.

Source (a blog titled current.com. <http://www.current.com>)

Enumerating: (reorganizing history)



Evolution cartoon.

Artist Unknown. Modified by FADarchitecture

Source (a blog titled current.com. Alien image from drwill.com)

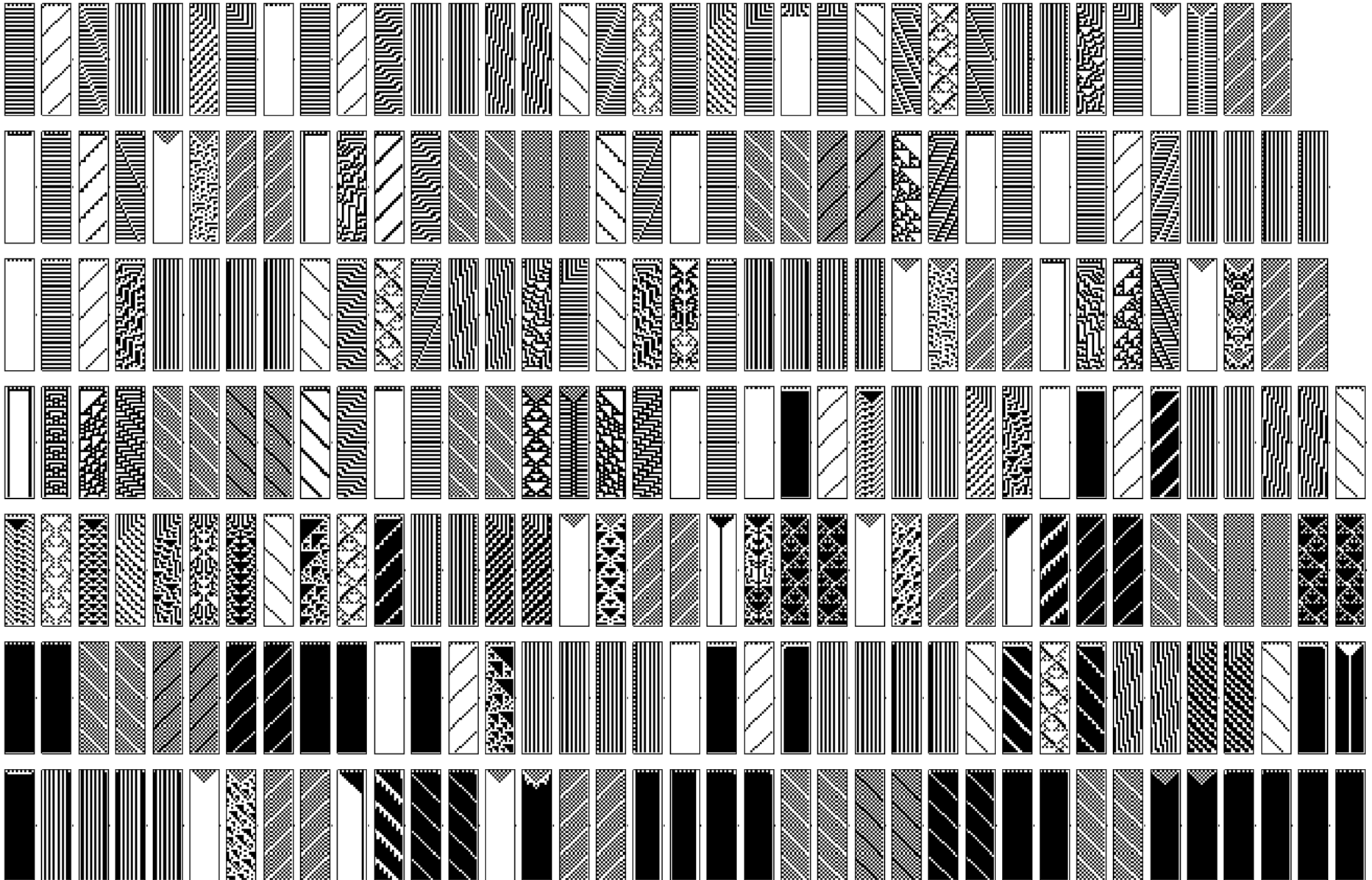


Ligus tree snails have their own unique patterns.

Source (<http://flickr.com/photos/swamper/2712450354/>)

Searching For Light....

Initial Population of 255 elementary cellular automata.

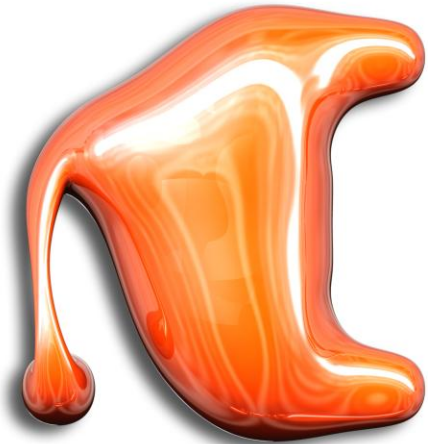


Units:

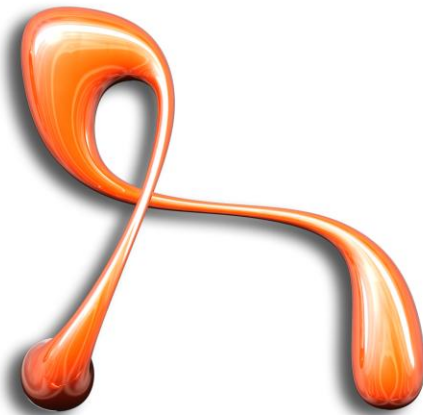
Unit one is designed to block out 100% of incoming light.

Unit two is designed to allow the maximum amount of light while still maintaining a structural connection to the other units.

01

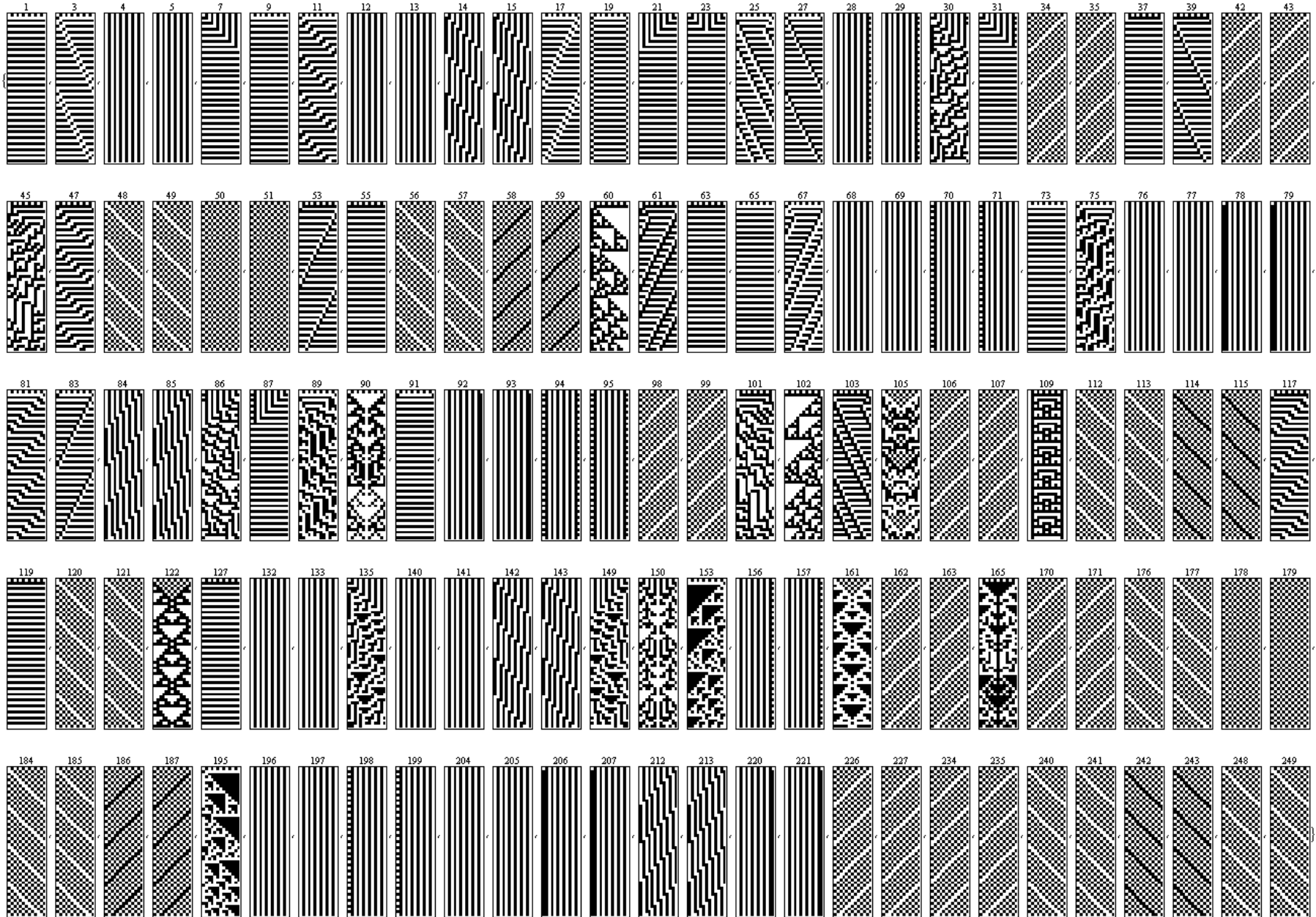


02



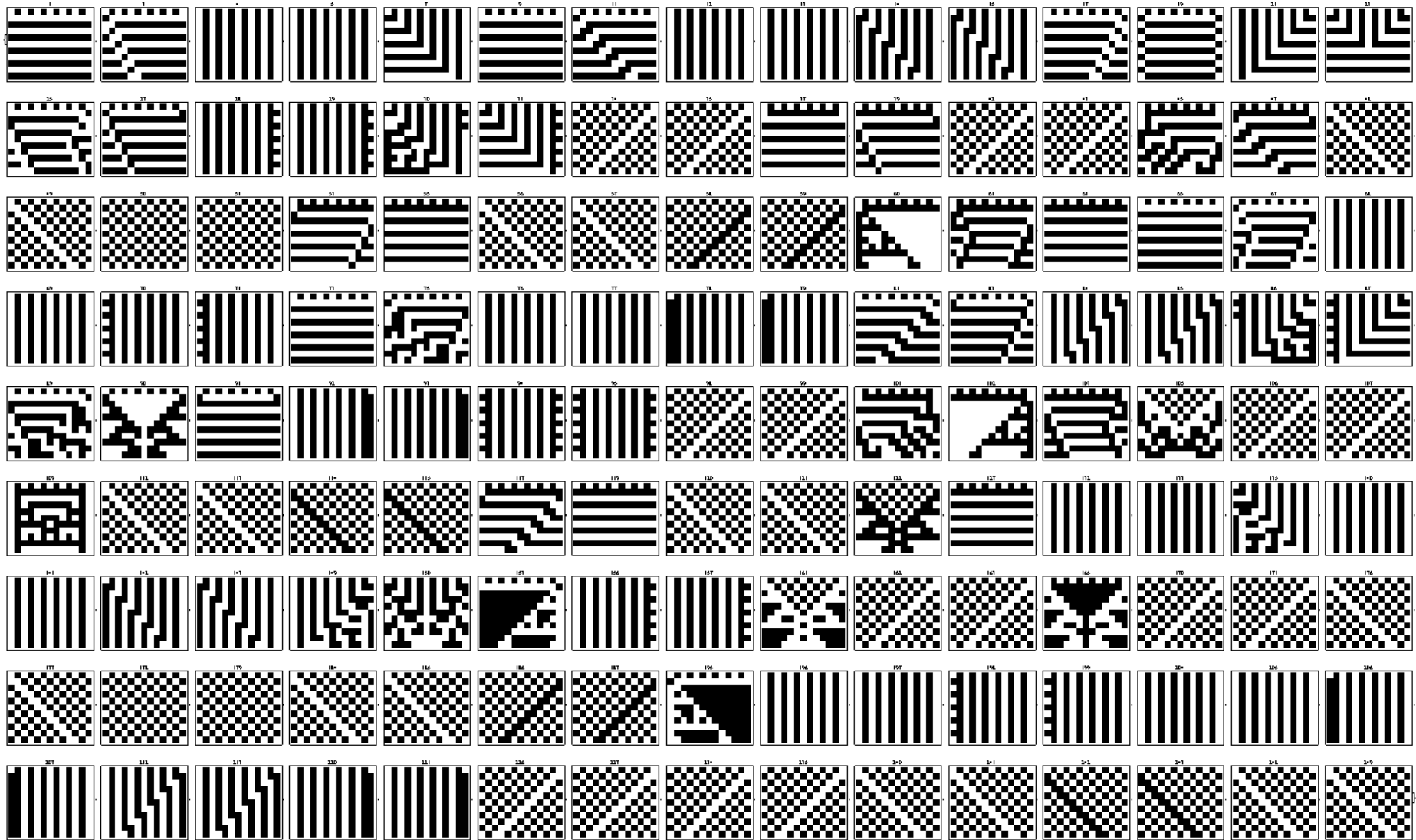
Search Criteria:

Between 48% and 53% obstruction of glass surface.



Search Criteria:

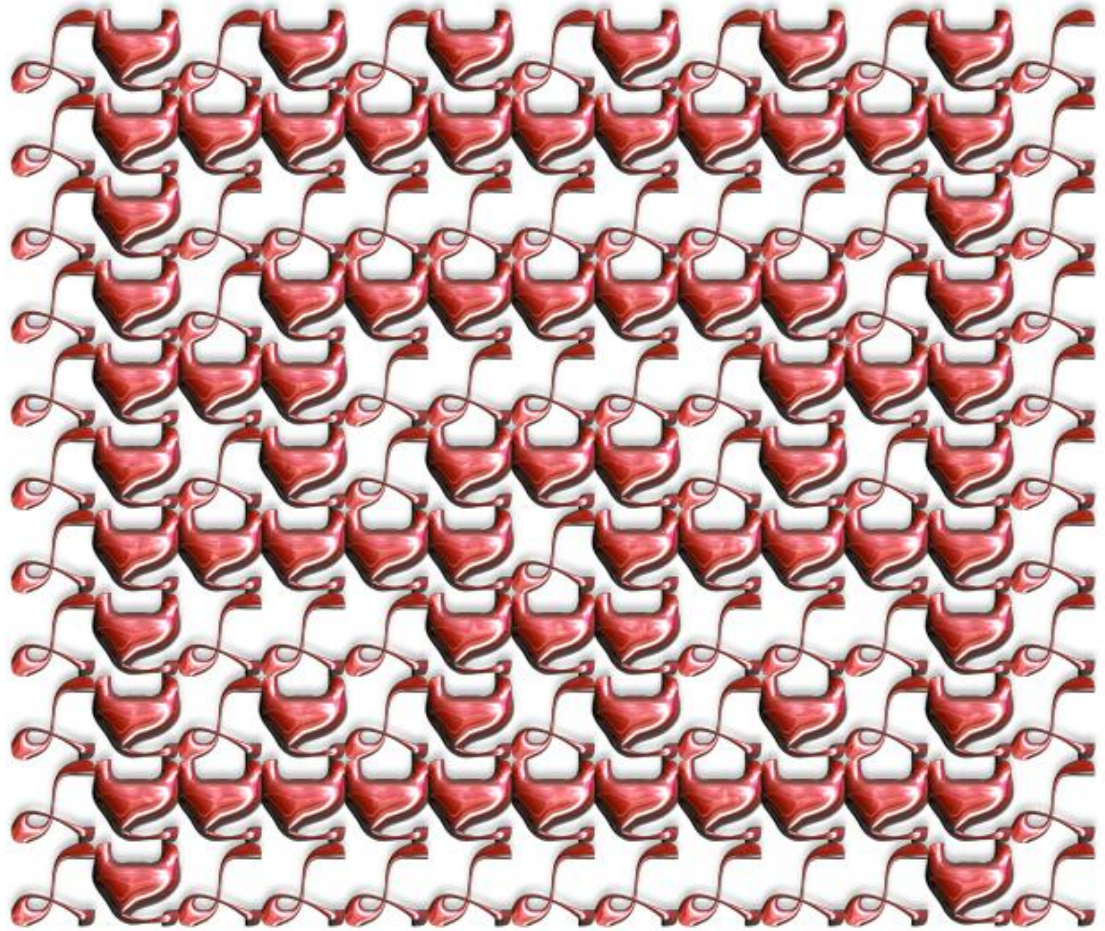
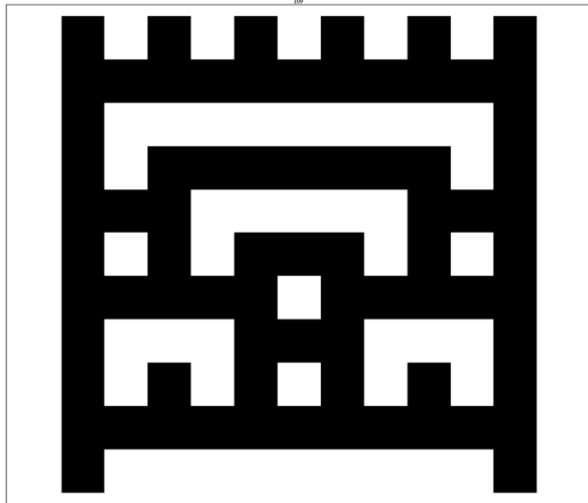
Between 48% and 53% obstruction of glass surface.



Search Criteria:

Between 48% and 53% obstruction of glass surface.

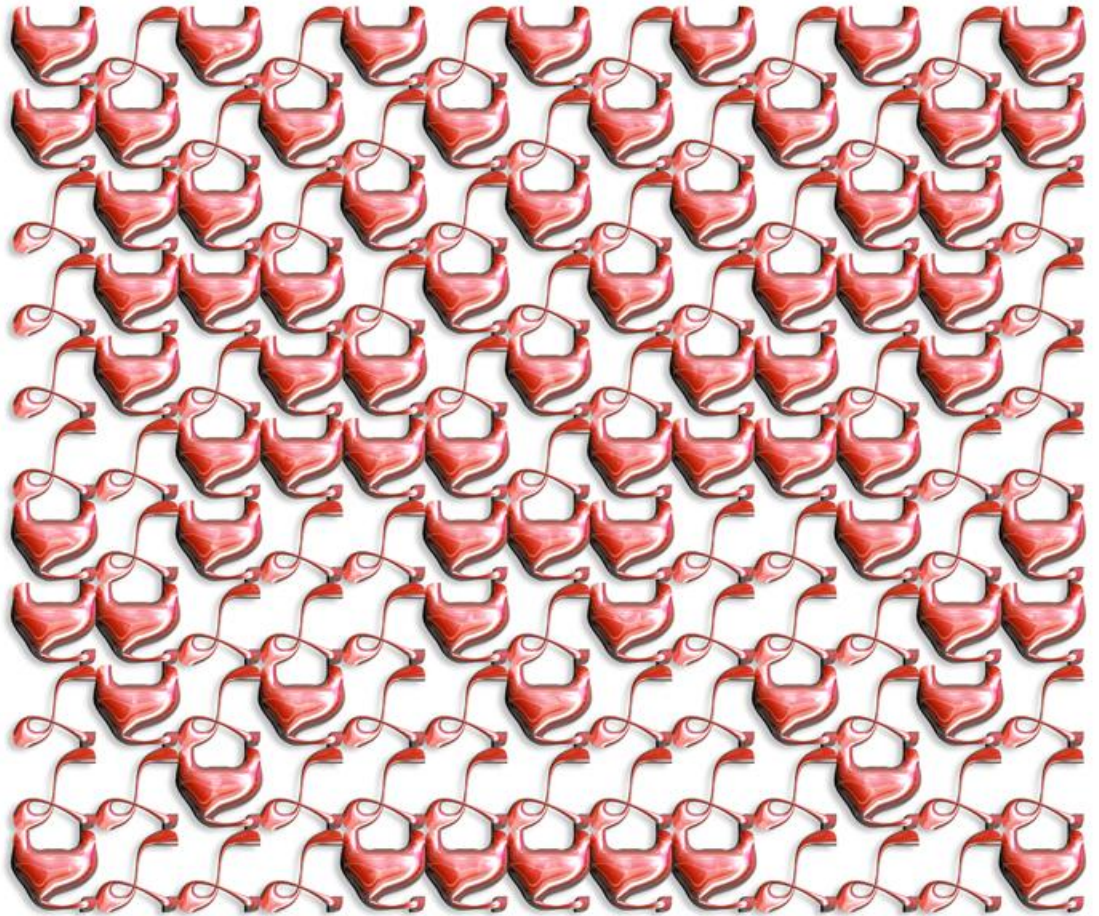
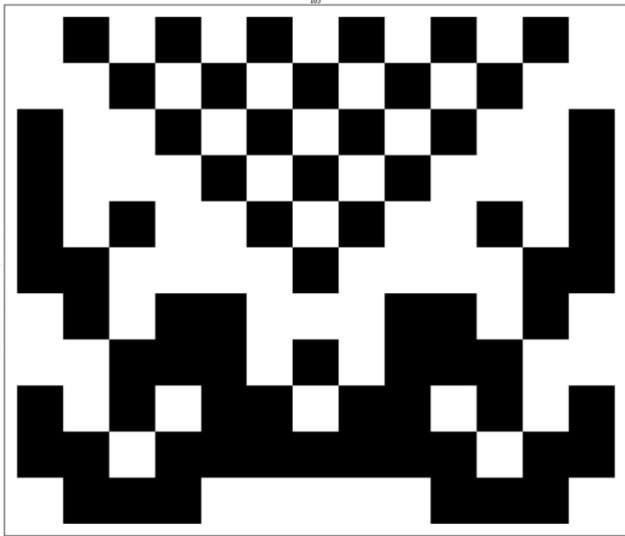
rule 109



Search Criteria:

Between 48% and 53% obstruction of glass surface.

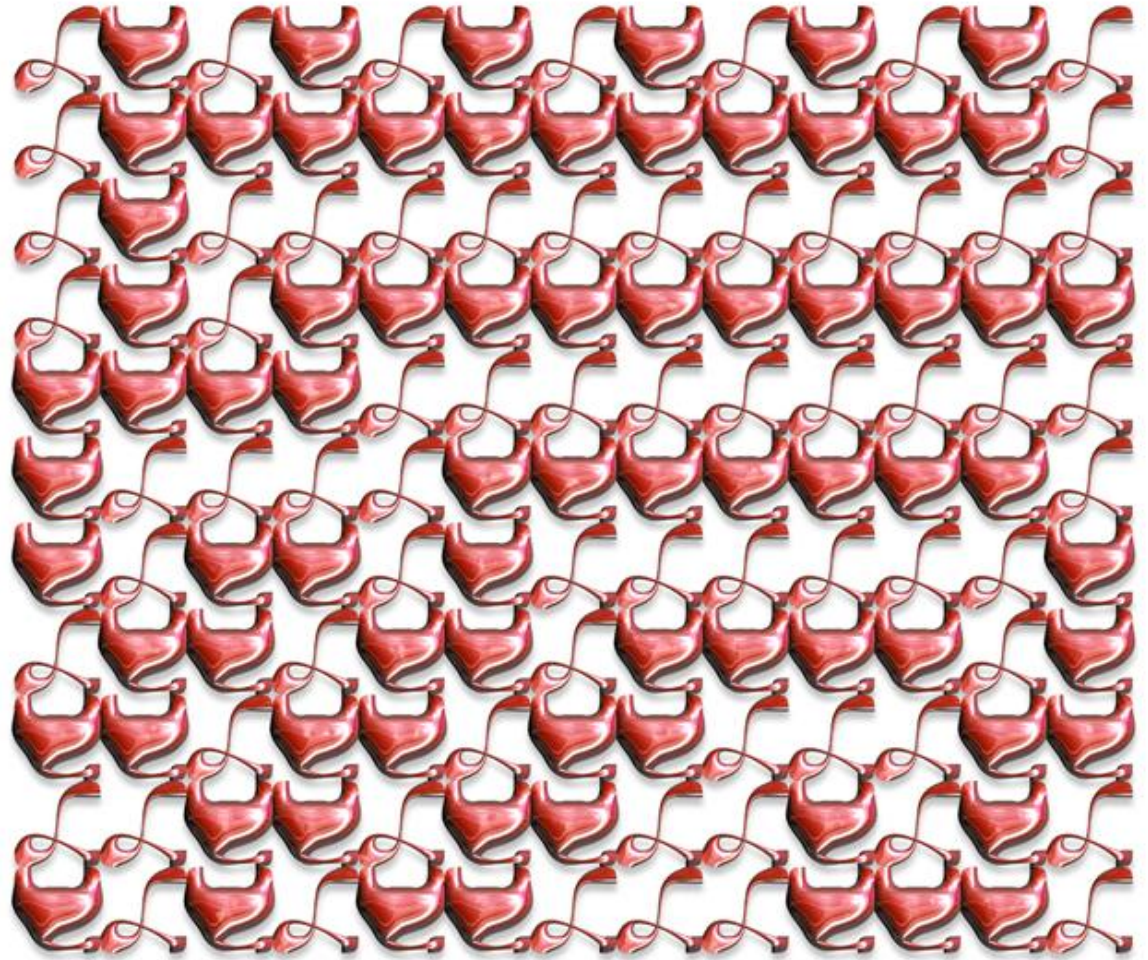
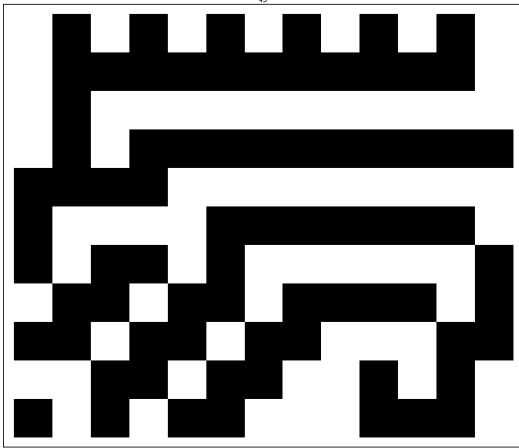
rule 109



Search Criteria:

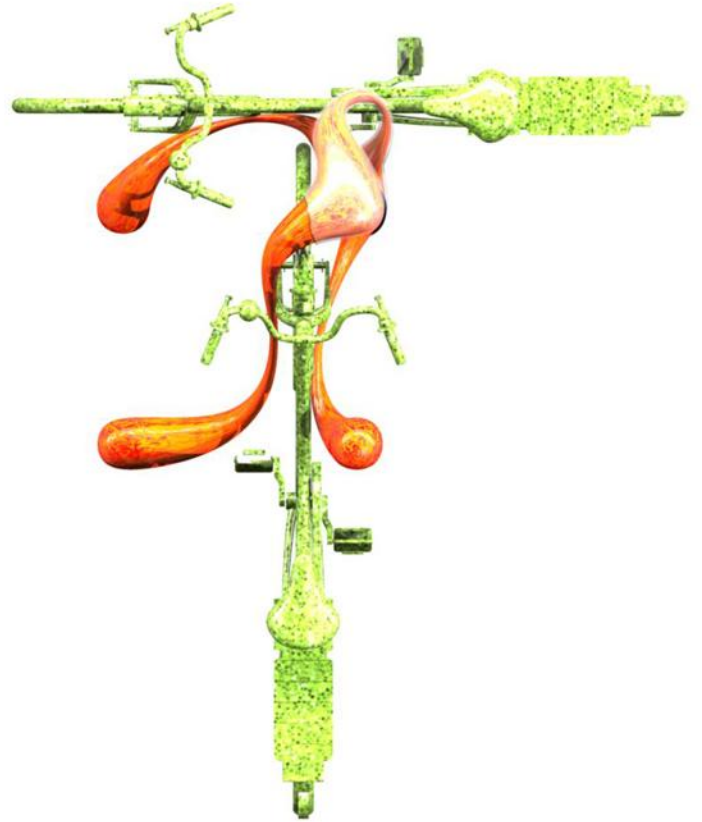
Between 48% and 53% obstruction of glass surface.

Rule 45



Searching For a Bike Rack....





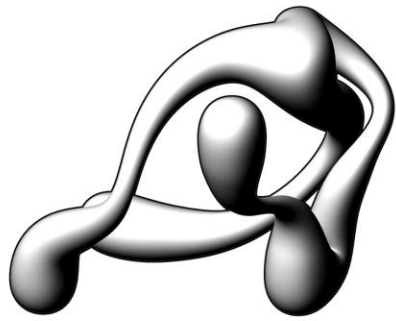


2 3

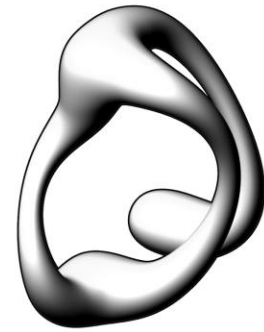
1 2 3 4 5
6 7 8 9 10



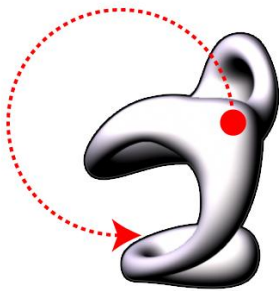




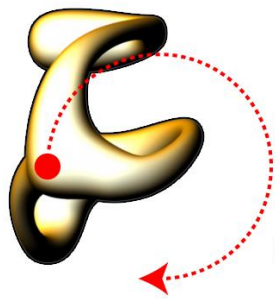
Component 01



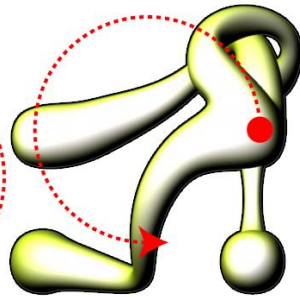
Component 02



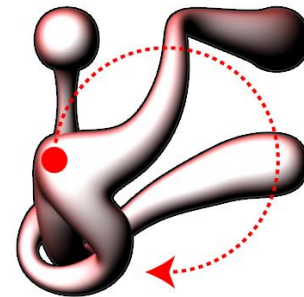
03



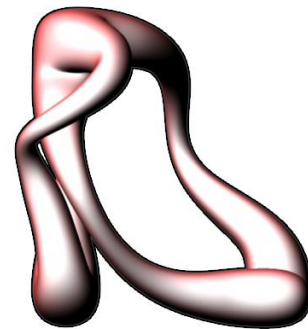
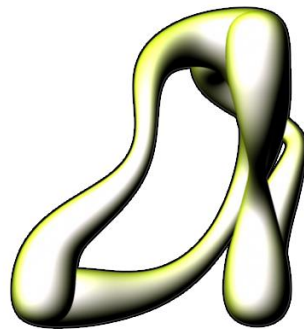
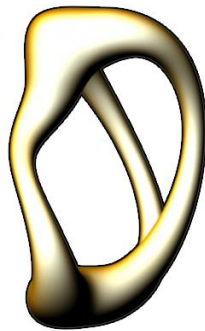
04

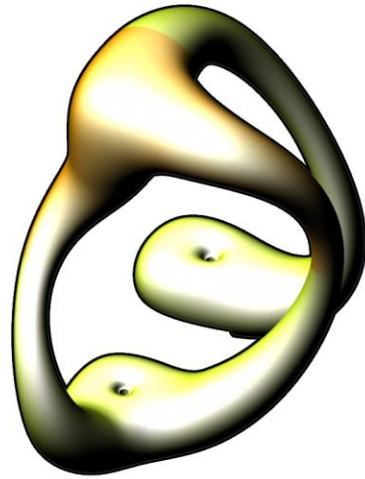


01

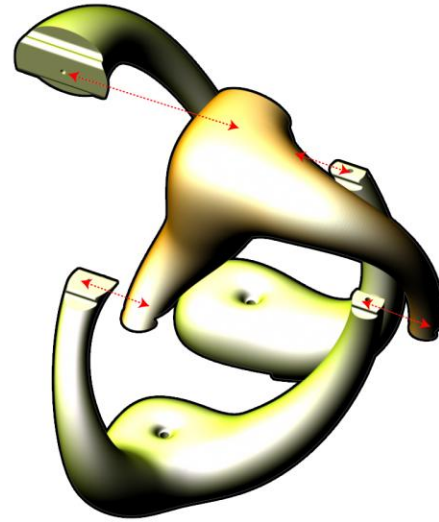


02





Component 02

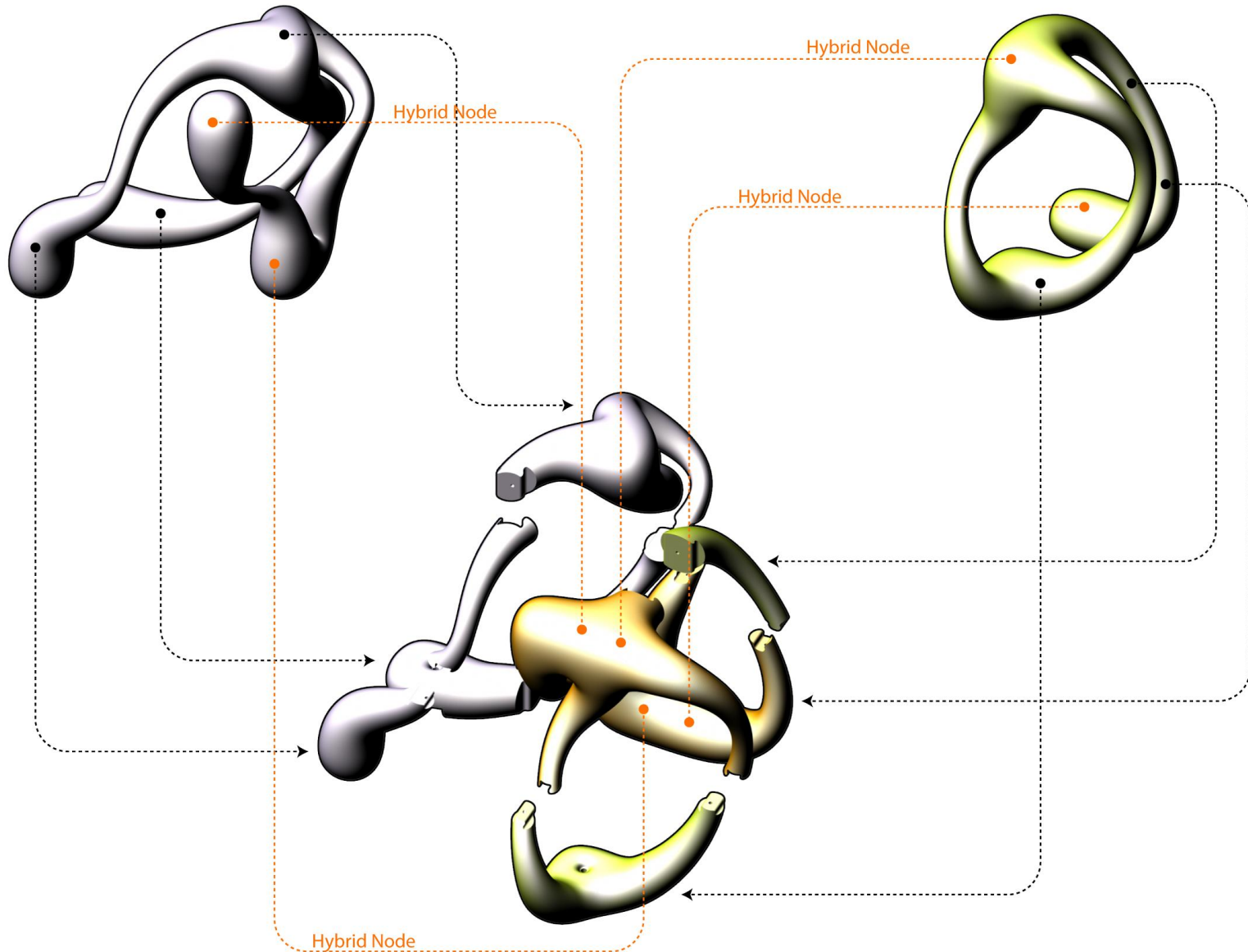


Component 02
(Exploded)

Combining discrete elements:

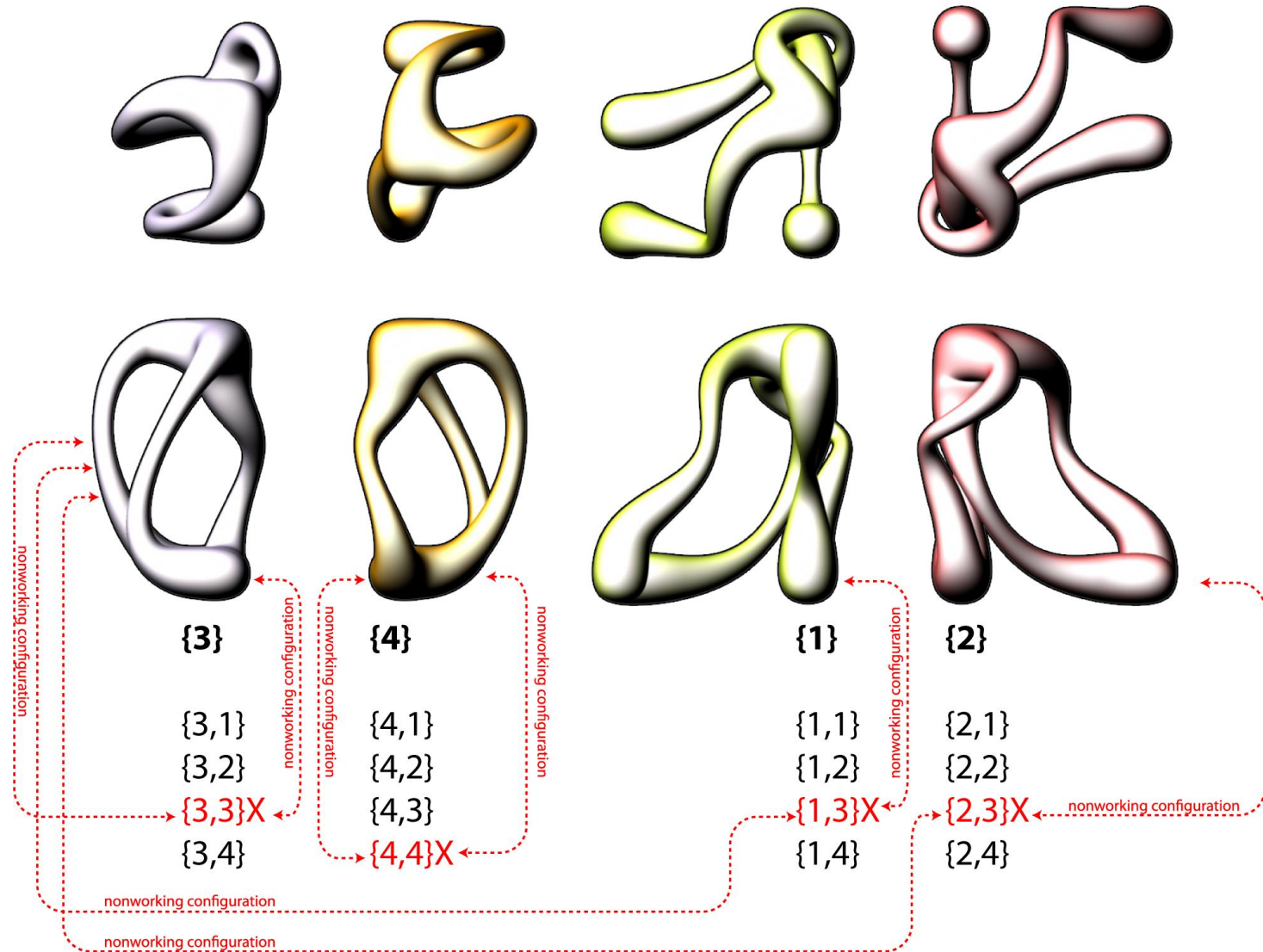
8 Standard Parts. 12 Hybrid Parts.

Total Kit of Parts = 20 parts (no matter how complex the construction.)



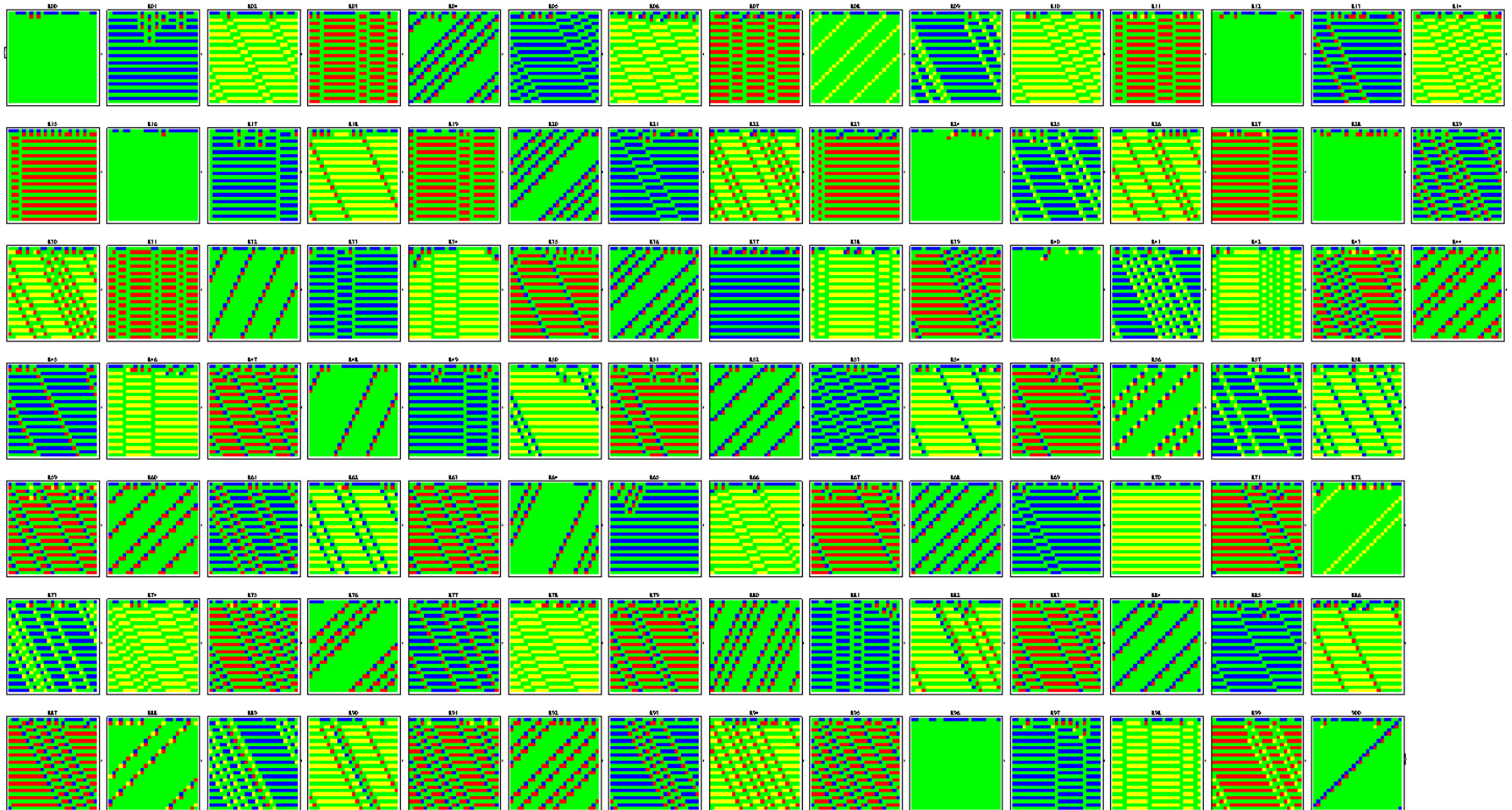
Designing the Search:

The search must return only solutions without the configurations marked in red.



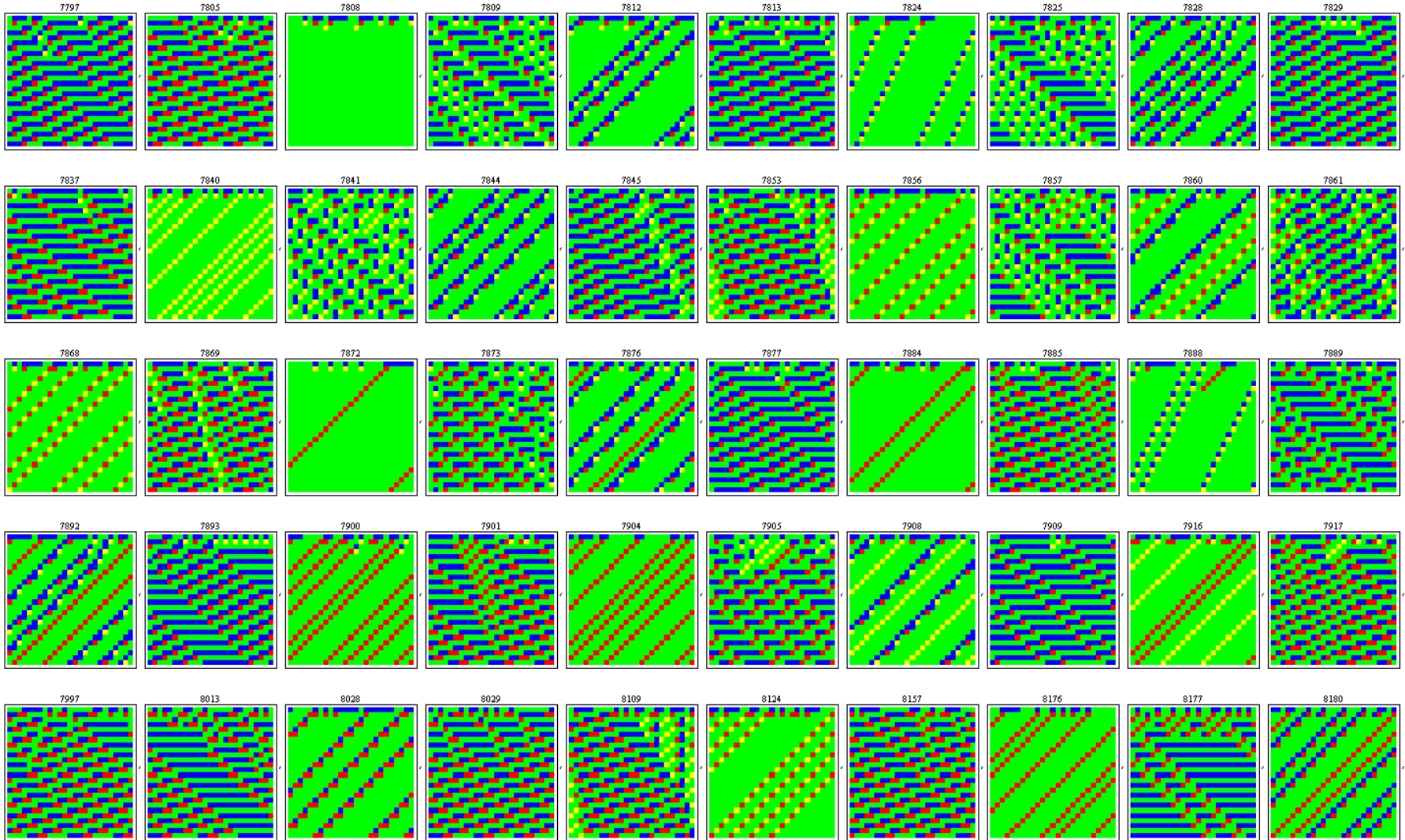
Building a Bike Rack computer: Four Color Cellular Automata

Total Possible Programs: 340282366920938463463374607431768211455



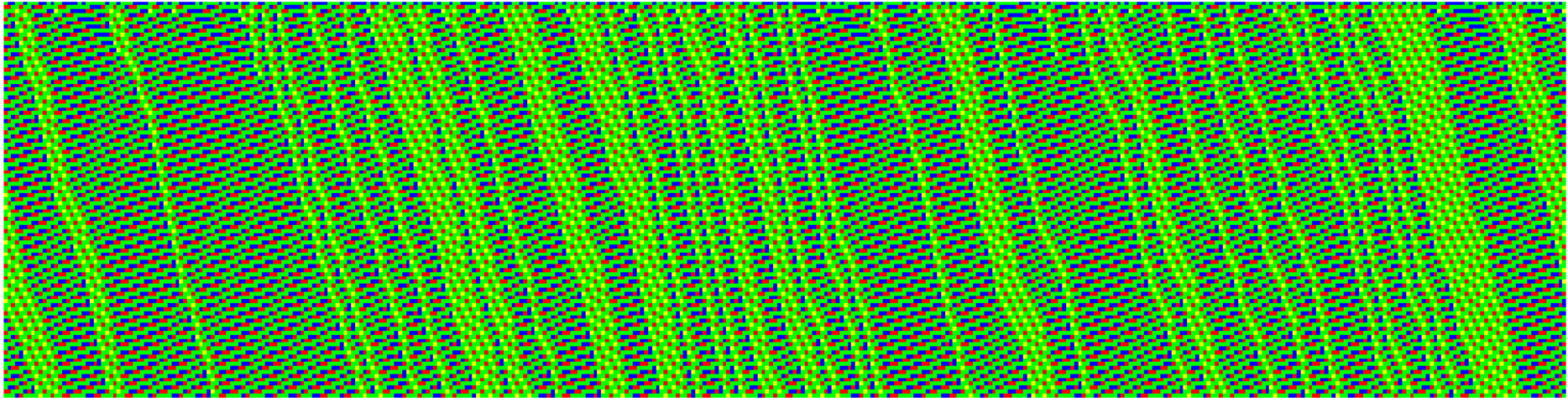
Building a Bike Rack computer: Four Color Cellular Automata

Total Possible Programs: **340282366920938463463374607431768211455**

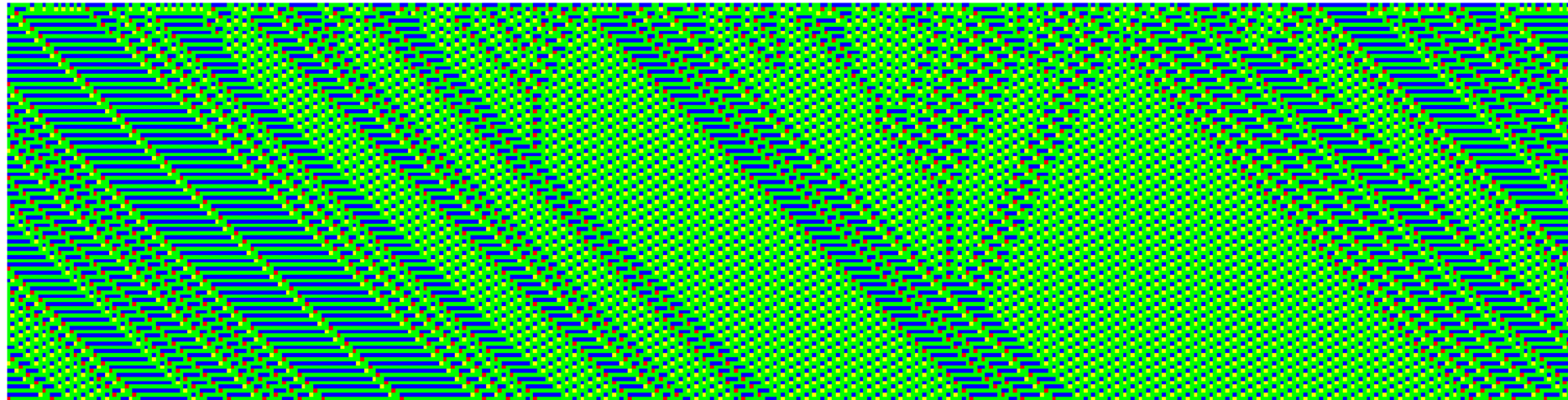


Building a Bike Rack computer:

Four Color Cellular Automata capable of computing bike rack configurations.



Rule #: 7357

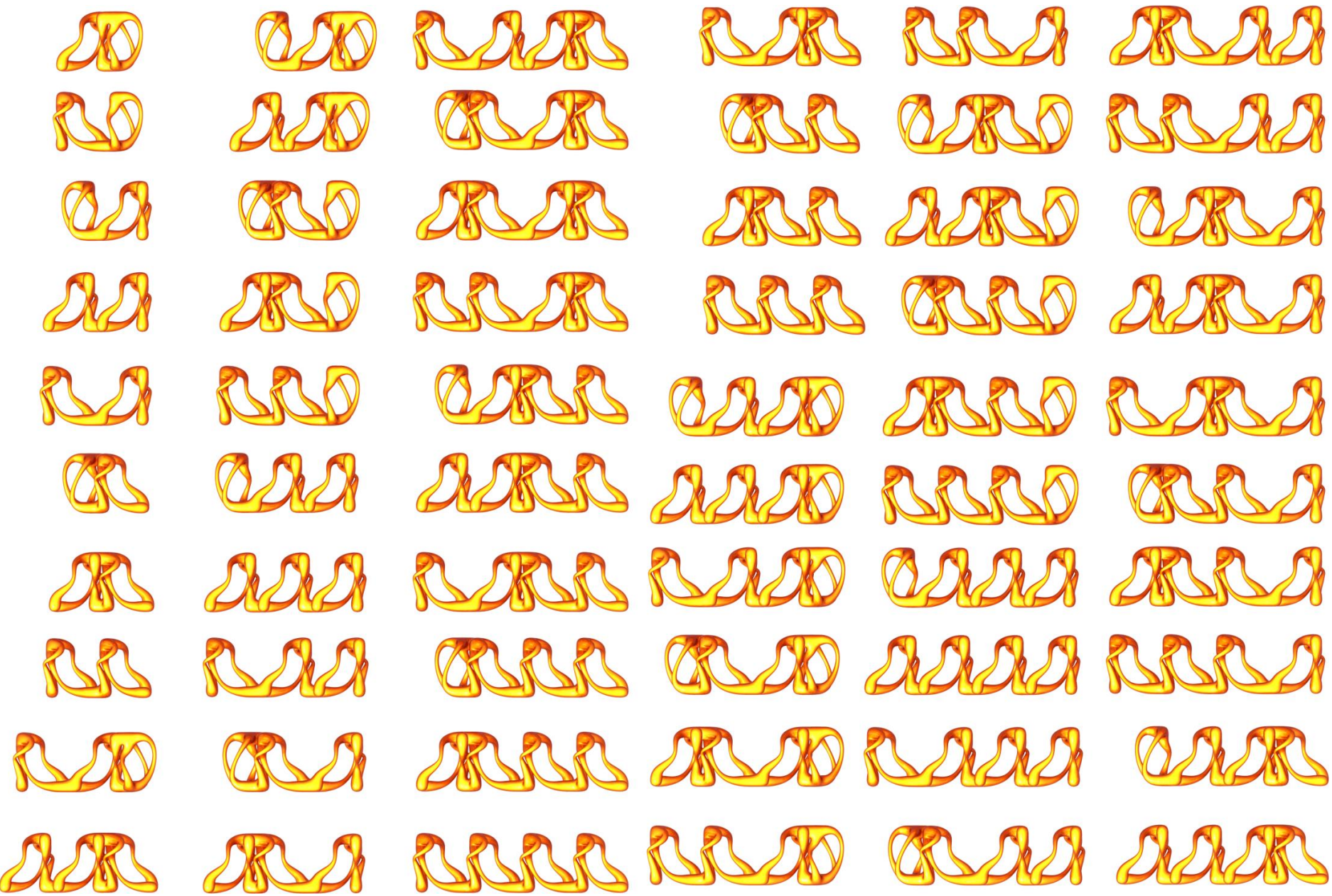


Rule #: 3713

Search Results:

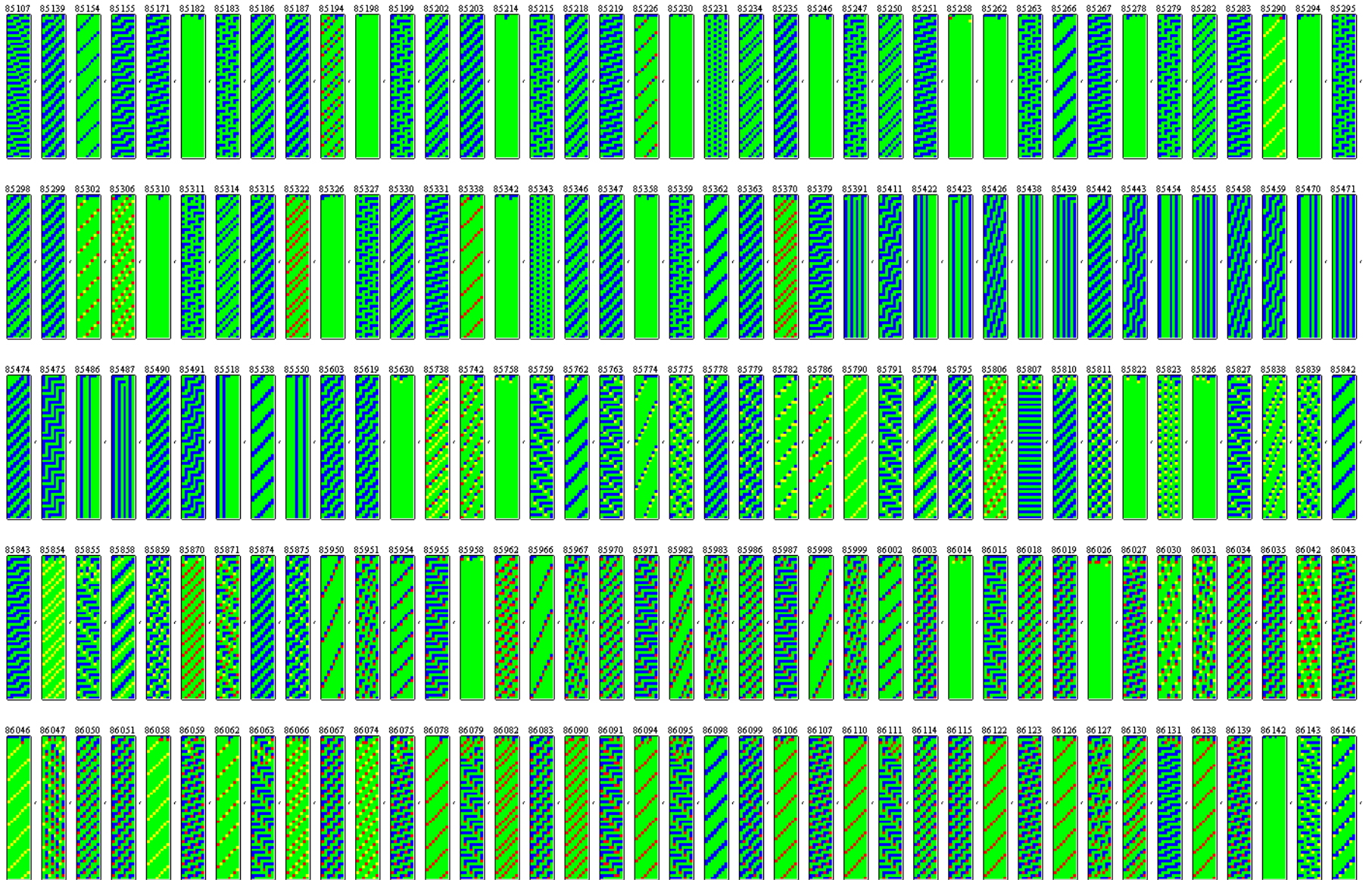
Population of working configurations with a maximum length of 8ft.

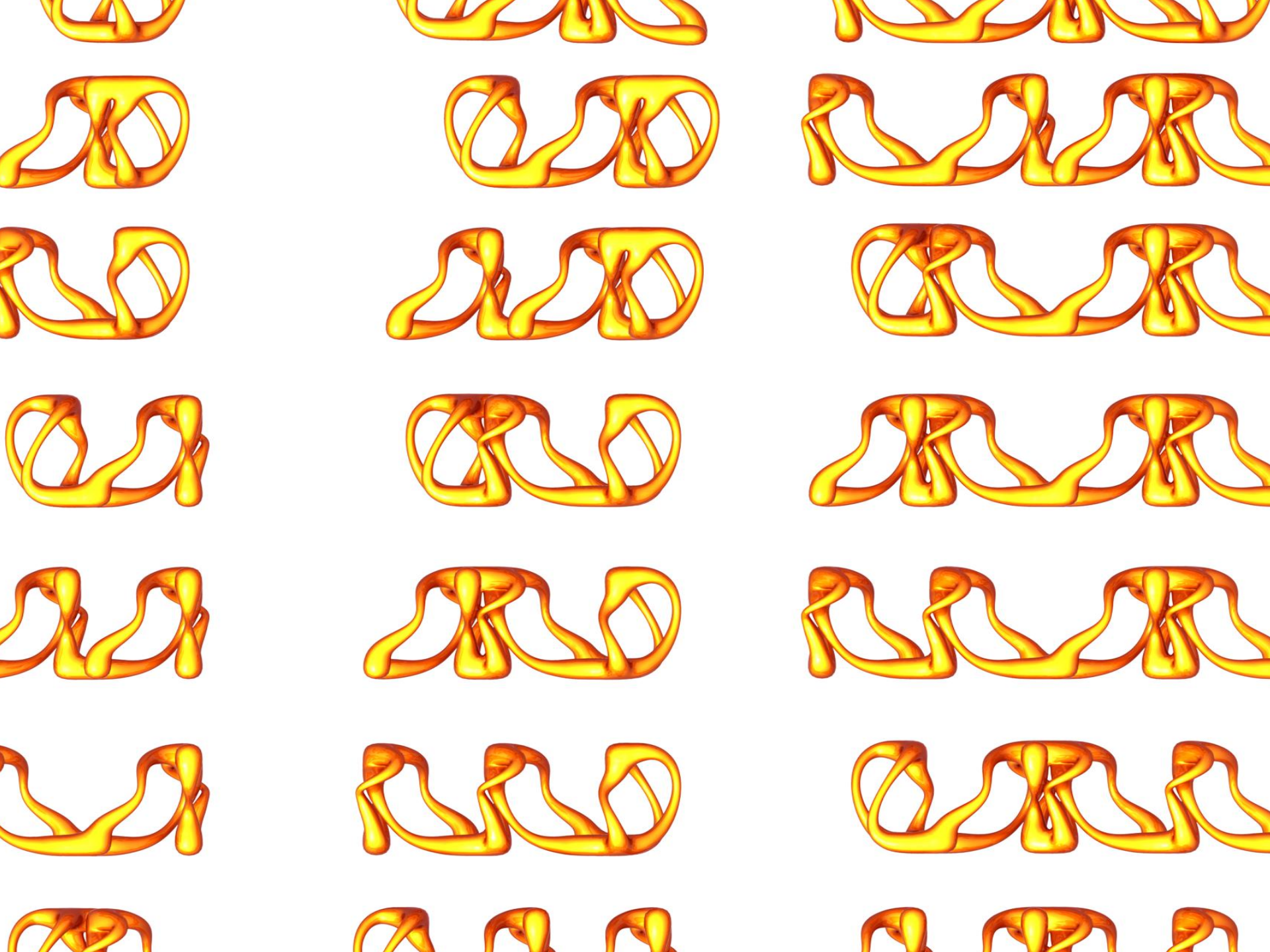
Total: 63 selected from a population of 336



Building a Bike Rack computer:

Four Color Cellular Automata capable of computing bike rack configurations.

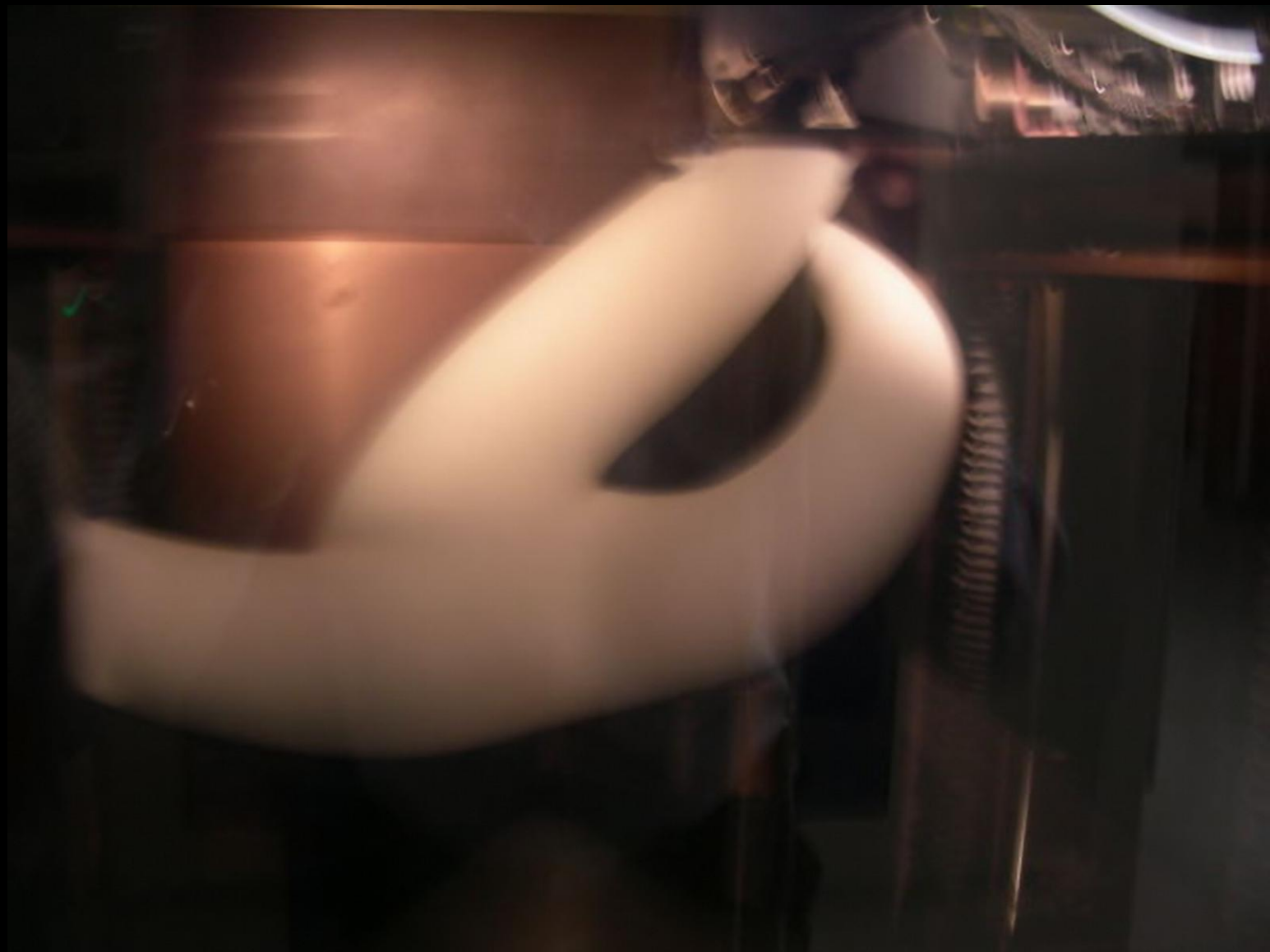


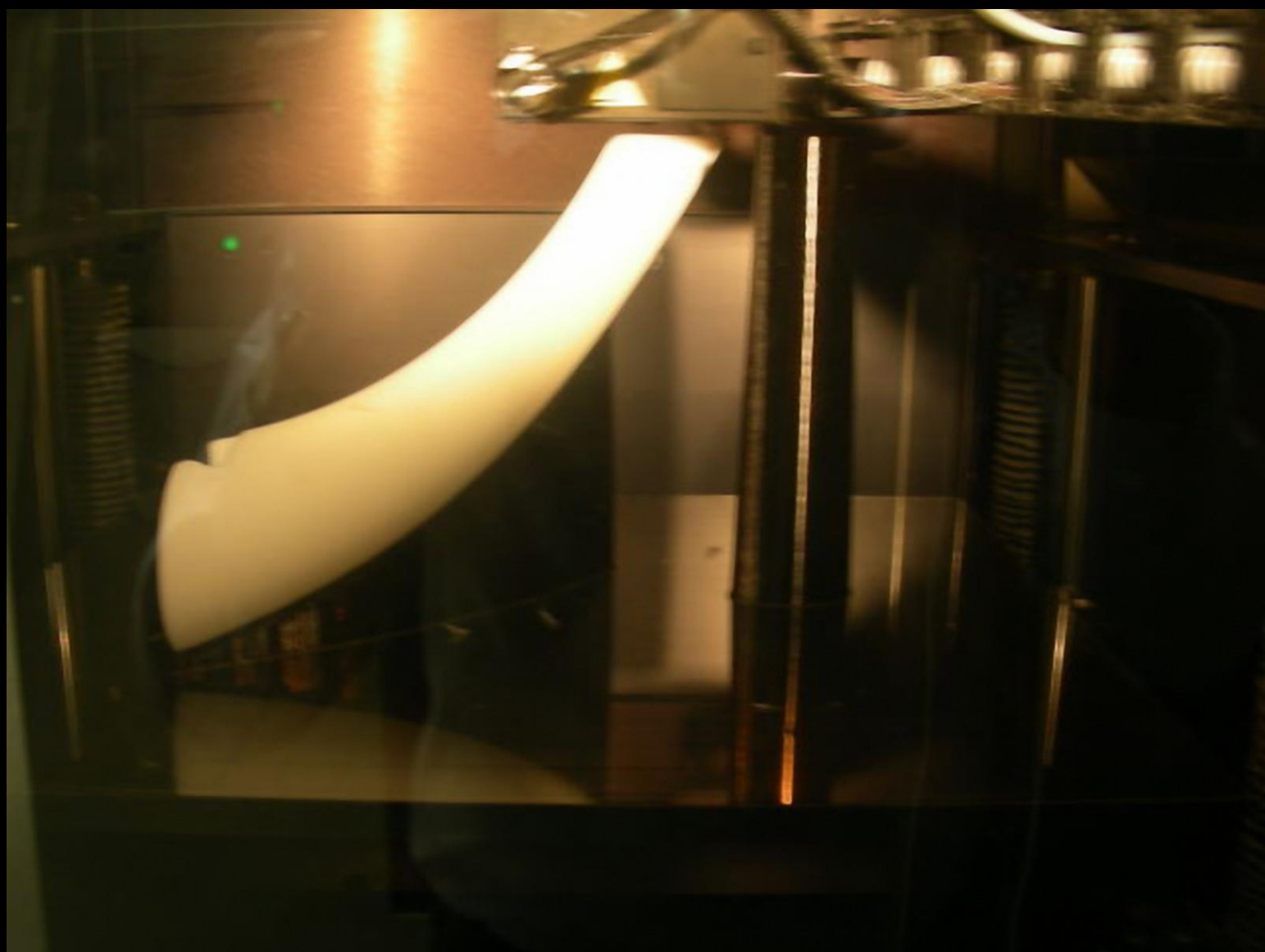


Fabricating an NKS bike rack:

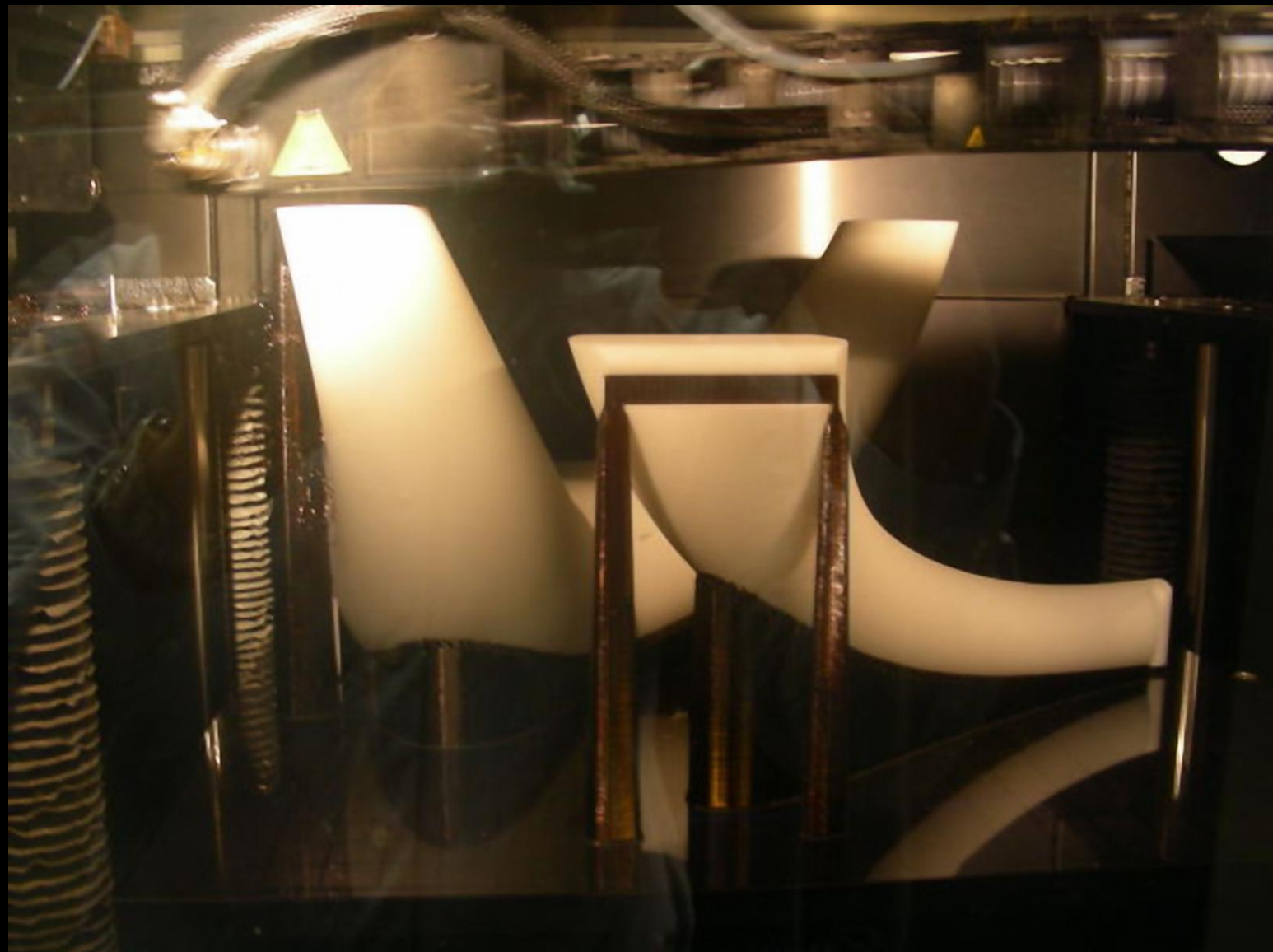
















IRWIN
Quick-Grip















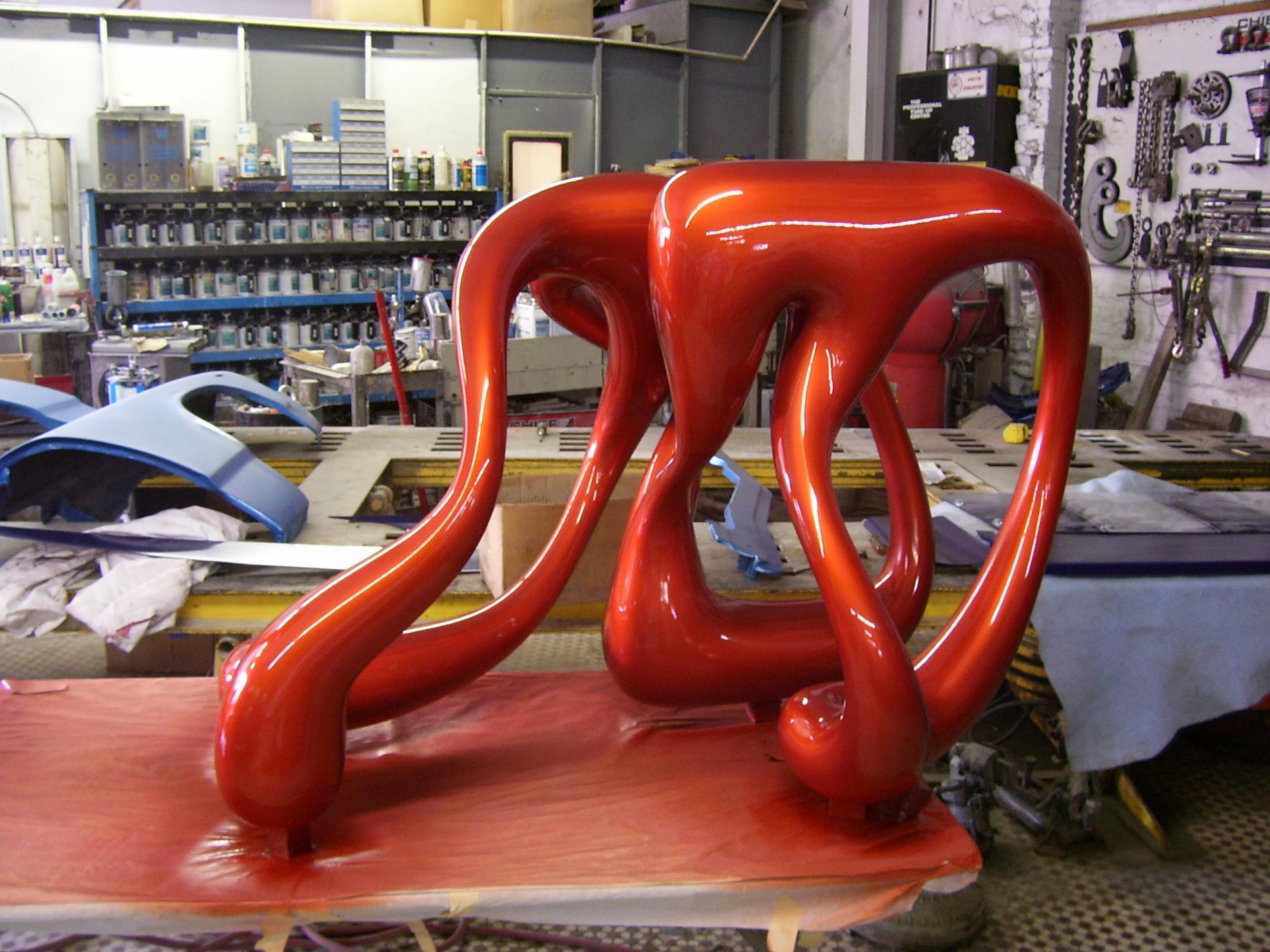




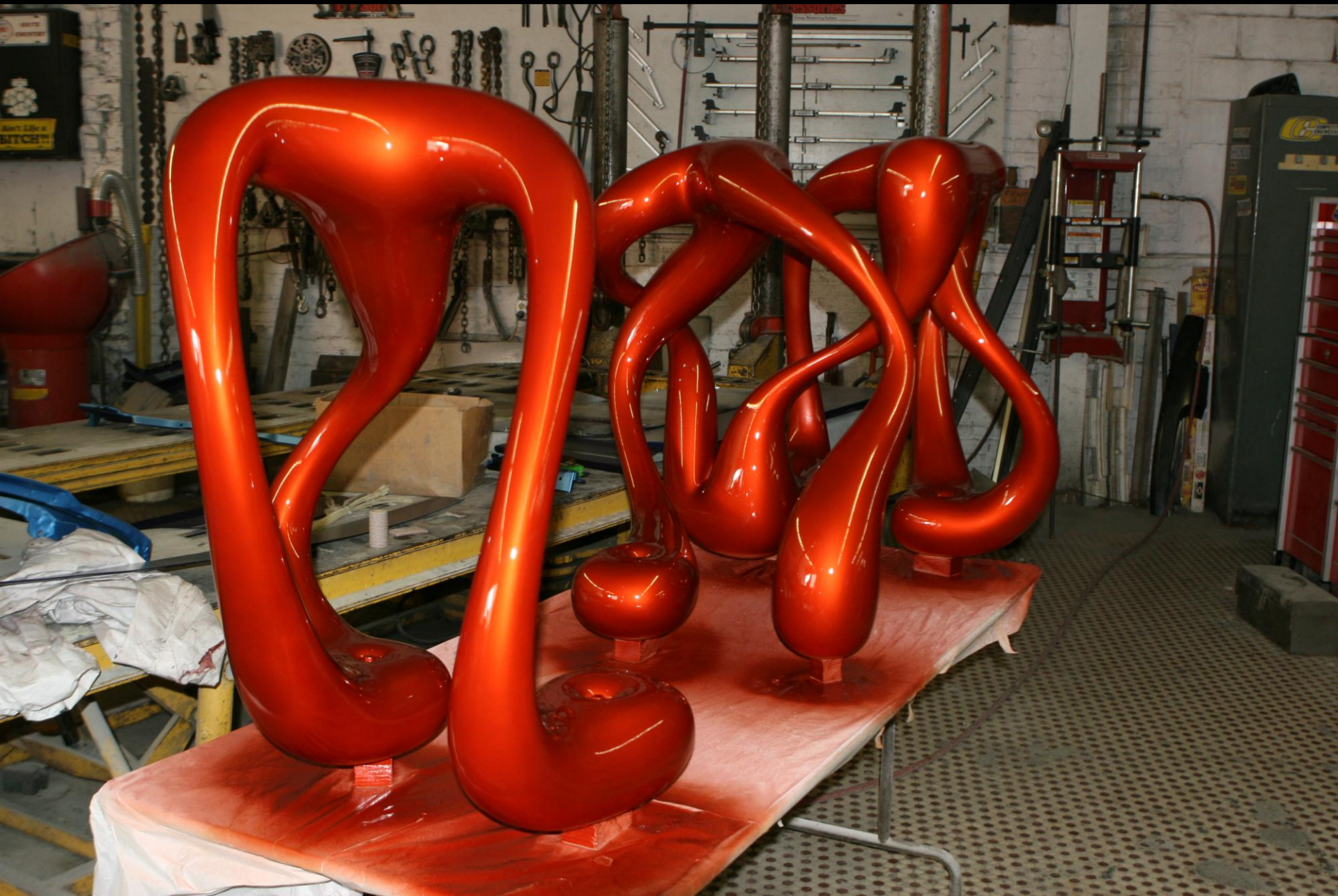




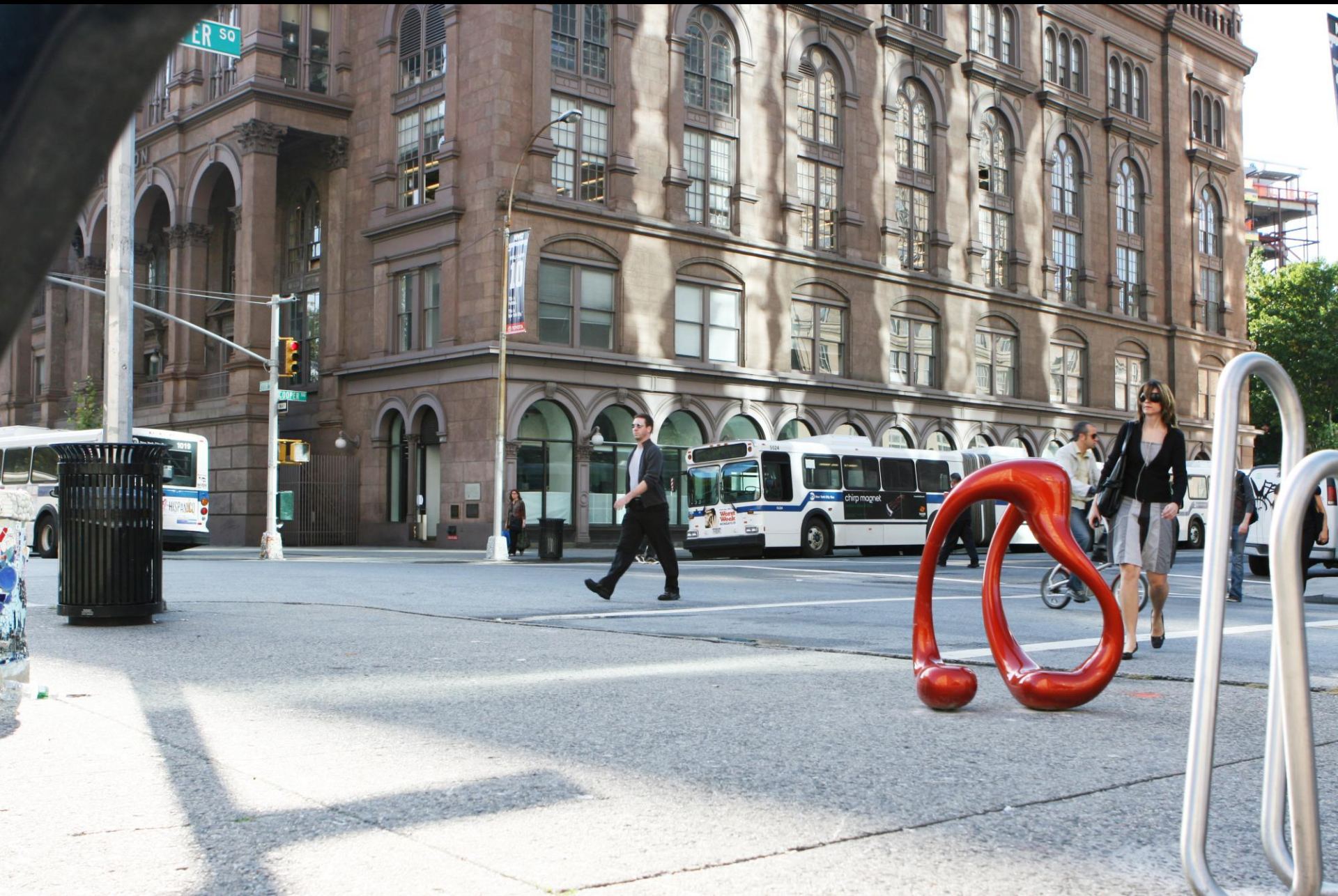
FRANK











ER 50

50th St

Vertical banner text on a utility pole.

chirp magnet











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Jamaica NY, 11435
USDOT#980902

GVW 33,000







