AND Gate: Crafting Table

```
_T_
RRR
T_T
```

T = Redstone Torch
R = Redstone Dust

————————————————

OR Gate: Crafting Table

```
_R_
RRR
R_R
```
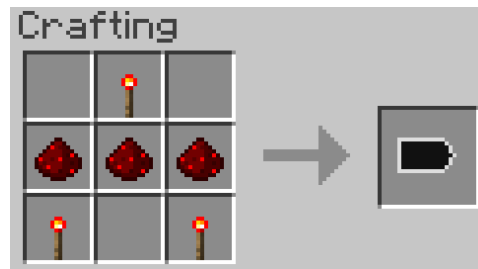
R = Redstone Dust

————————————————
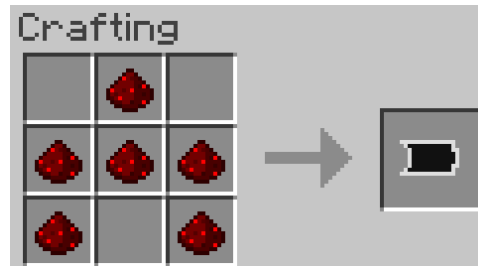
NOT Gate: Crafting Table

```
_R_
_T_
_R_
```

R = Redstone Dust
T = Redstone Torch

————————————————
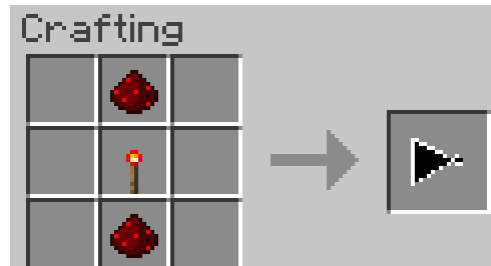
NOR Gate: Crafting Table

Any placement of 1 NOT gate
and one OR gate

————————————————

NAND Gate: Crafting Table

Any placement of 1 NOT gate
and one AND gate

————————————————
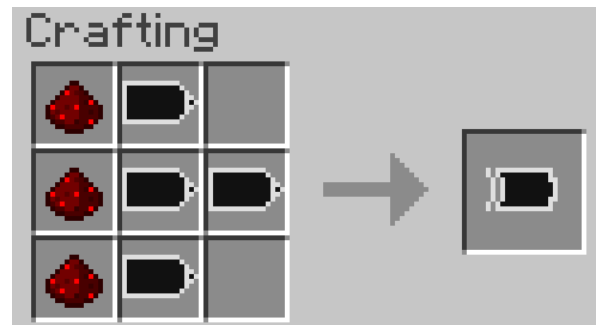
XOR Gate from NAND: Crafting Table

RA_
RAA
RA_

R = Redstone Dust
A = NAND Gate

_____

XOR Gate From NOR: Crafting Table

OO_
ORO
RO_

R = Redstone Dust
O = NOR Gate

_____

Blustone: Crafting Table

Any placement of redstone
dust and one lapis lazuli

_____

Moores Machine: Crafting Table

BPB
BCB
BBB

B = Blustone Dust
P = Piston
C = Crafting Table

_____

Power Generator - Moores Machine

```
BBB_____
BBB_____
BBB_____
_____
_____
_____
_____
_____
_____
```
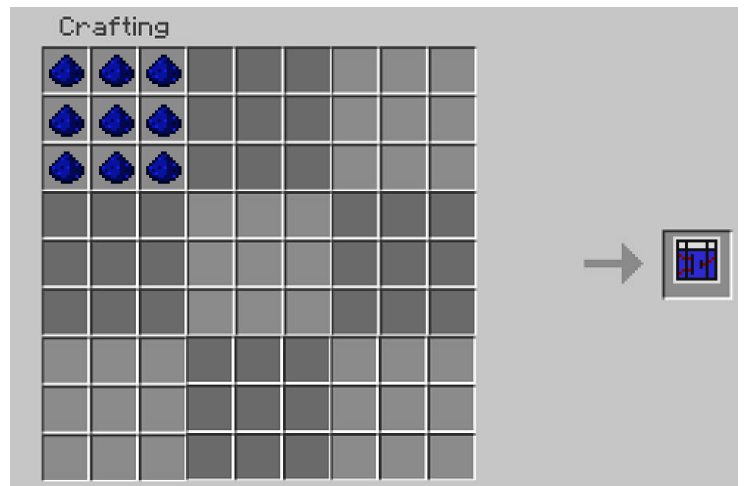
B - Blustone Dust
_____

Blu NAND Gate - Moores Machine

```
GBTB_____
___BBBBBB
GBTB_____
_____
_____
_____
_____
_____
_____
```
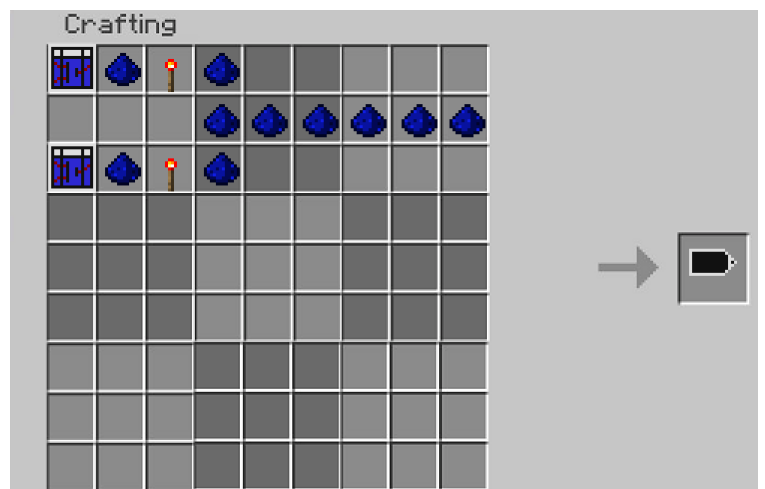
G = Power Generator
T = Redstone Torch
B = Blustone dust
_____

Blu NOR Gate - Moores Machine

```
GBBB_____
___BBTBBB
GBBB_____
_____
_____
_____
_____
_____
_____
```
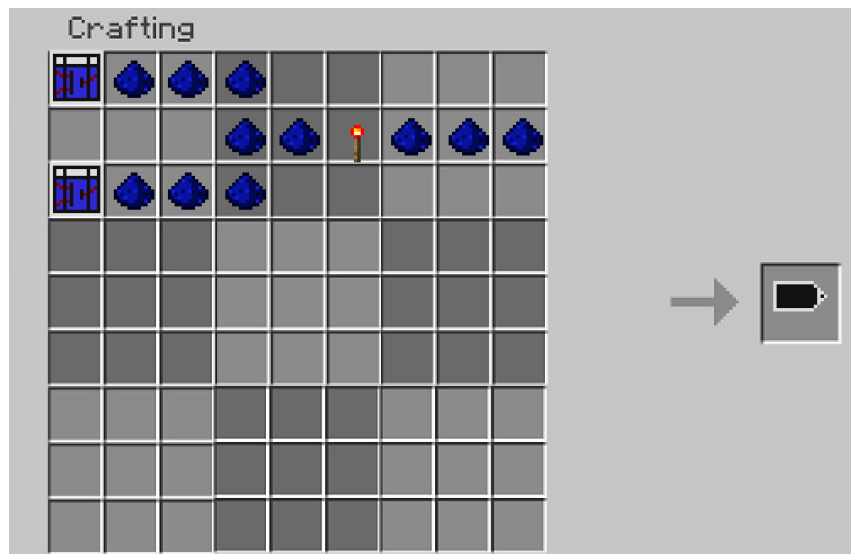
G = Power Generator
T = Redstone Torch
B = Blustone dust

_____

Blu NOT Gate from NAND/NOR - Moores Machine

```
BBB_____
G_NBBBBBB
BBB_____
_____
_____
_____
_____
_____
_____
```

B = Blustone Dust
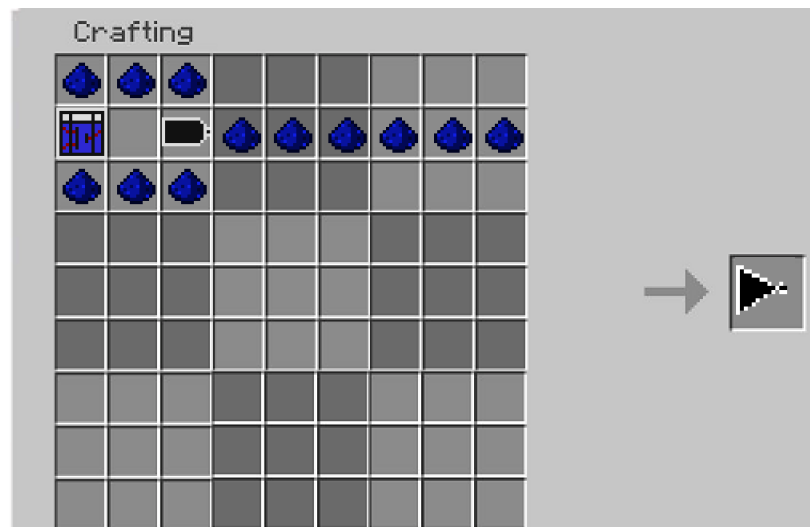G = Power Generator
N = Blu NAND Gate
    /Blu NOR Gate
(either works)

_____

Inverse of any Blu Logic Gate

```
GN_____
_____
_____
_____
_____
_____
_____
_____
```
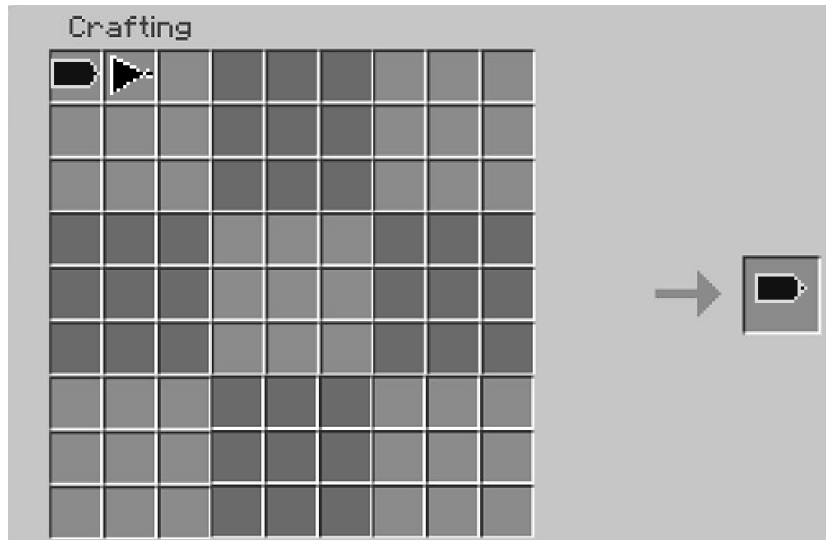
G = Any Blu Logic Gate
 (except for Blu NOT
Gate)
N = Blu NOT Gate

_____

Blu OR Gate - Moores Machine

```
BBBB_____
G__NBB____
BBBB_B____
_____NBBB
BBBB_B____
G__NBB____
BBBB_____
_____
_____
```
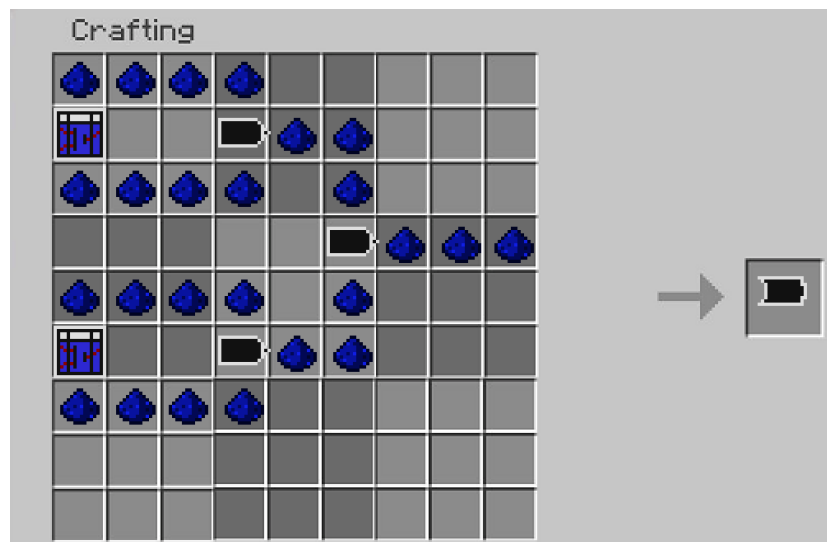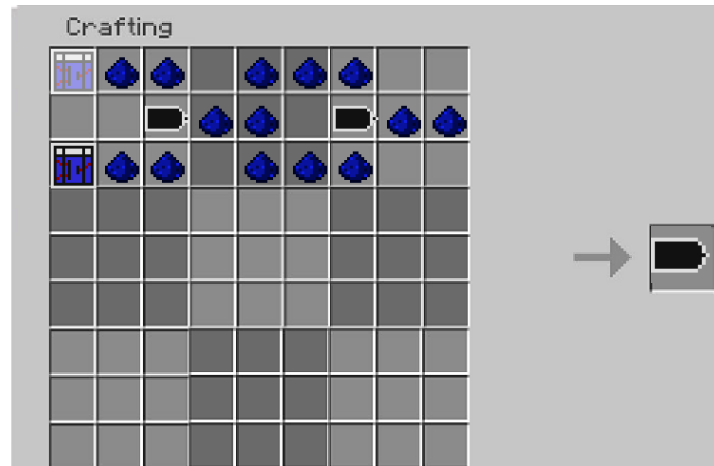
B = Blustone dust
G = Power Generator
N = Blu NAND Gate

_____

Blu AND Gate - Moores Machine

```
GBB_BBB__
__NBB_NBB
GBB_BBB__
_____
_____
_____
_____
_____
_____
```
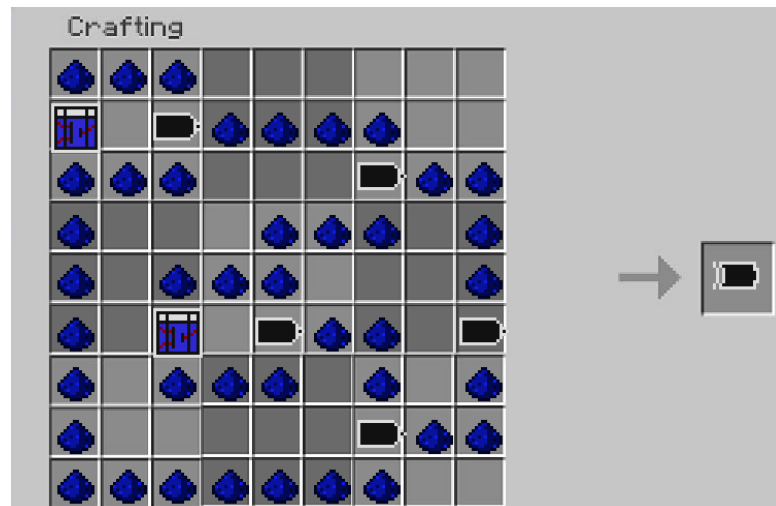
G = Power Generator
N = Blu NAND Gate
B = Blustone

_____

Blu XOR Gate From Blu NAND - Moores Machine

```
BBB_____
G_NBBBB__
BBB___NBB
B___BBB_B
B_BBB___B
B_G_NBB_N
B_BBB_B_B
B_____NBB
BBBBBBB__
```
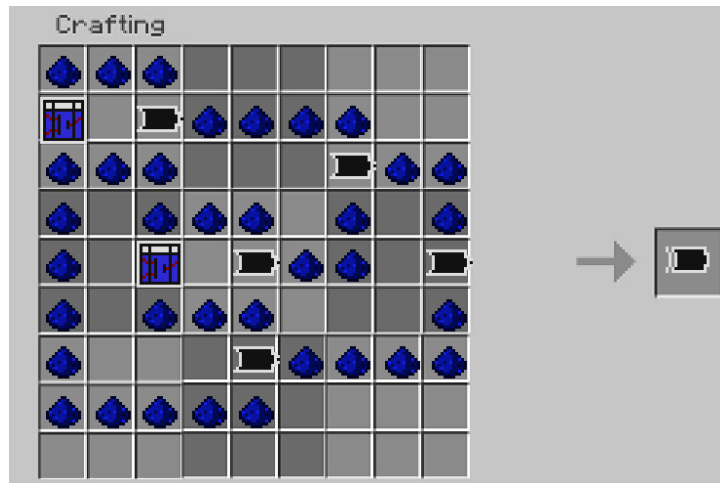
B = Blustone dust
G = Power Generator
N = Blu NAND Gate

_____

Blu XOR Gate from Blu NOR - Moores Machine

```
BBB_____
G_NBBBB___
BBB___NBB
B_BBB_B_B
B_G_NBB_N
B_BBB___B
B___NBBBB
BBBBB_____
_____
```
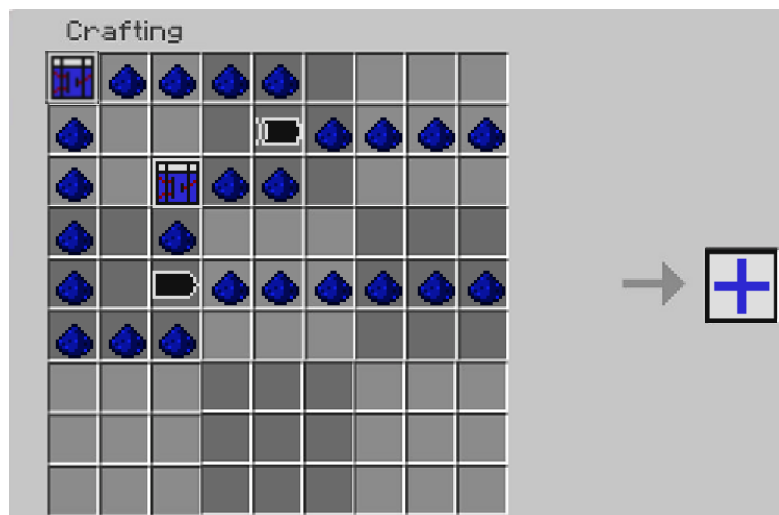
B = Blustone Dust
N = Blu NOR Gate
G = Power Generator

_____

Adder - Moores Machine

```
GBBBB_____
B___XBBBB
B_GBB_____
B_B_____
B_ABBBBBB
BBB_____
_____
_____
_____
```

G = Power Generator
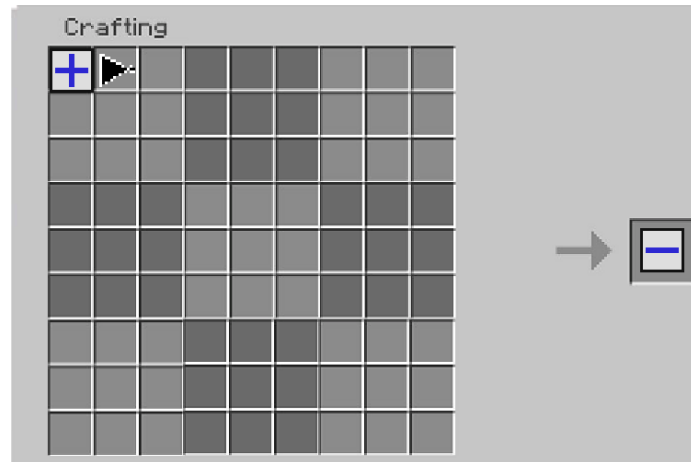B = Blustone Dust
X = Blu XOR Gate
A = Blu AND Gate

_____

Subtractor - Moores Machine

AN_____

_____

_____

_____

_____

_____

_____

_____

_____

A = Adder

N = Blu Not Gate

_____

Counter - Moores Machine

BBBBBBBBB

B_____B

B_____B

B_____B

B_____B

B_____B

B_____B

B_____B

BBBBBBBBB

B = Blustone

_____
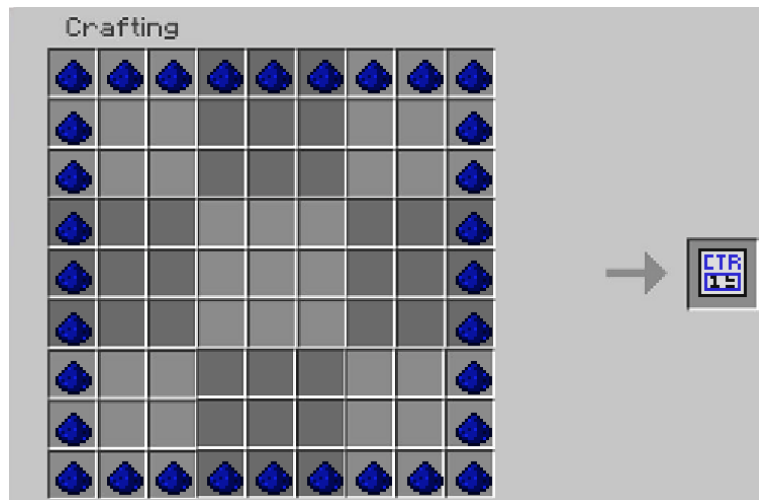
Division - Moores Machine

```
GBBBBB___
_B_B_SBB_
_B_BBB_B_
_B_____B_
_BBBBBBCB
_____B_
_____G_
_____
_____
```

B = Blustone Dust
G = Power Generator
S = Subtractor
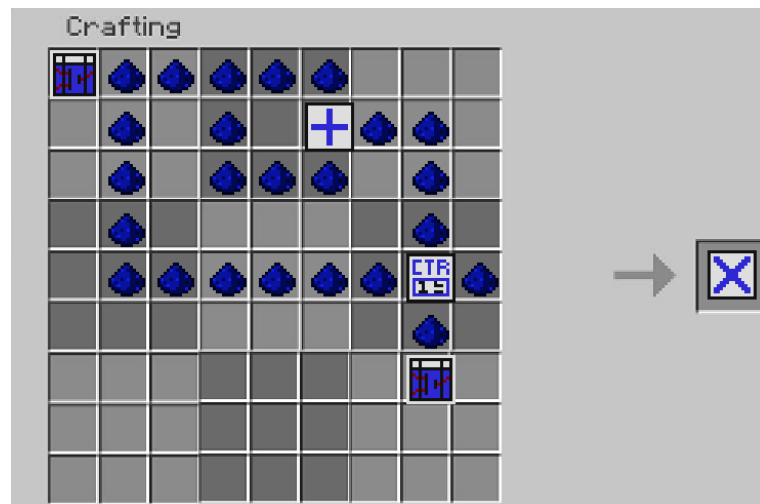C = Counter

———————————————
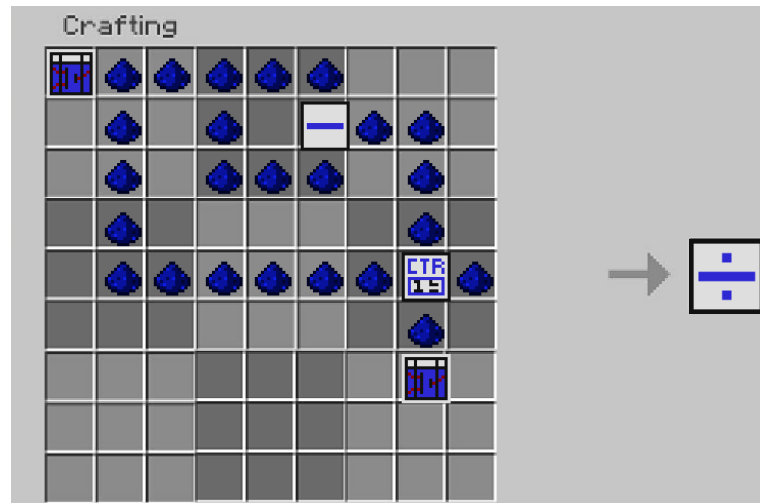
Multiplication - Moores Machine

```
GBBBBB___
_B_B_ABB_
_B_BBB_B_
_B_____B_
_BBBBBBCB
_____B_
_____G_
_____
_____
```

B = Blustone Dust
G = Power Generator
C = Counter
A = Adder

———————————————

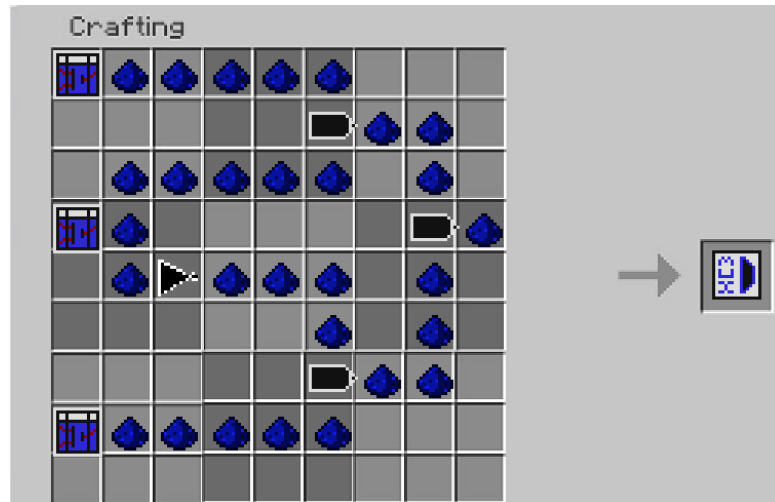## Multiplexor - Moores Machine

```
GBBBBB___
_____ABB_
_BBBBB_B_
GB_____AB
_BNBBB_B_
_____B_B_
_____ABB_
GBBBBB___
_____
```

G = Power Generator
B = Blustone Dust
A = Blu NAND Gate
N = Blu NOT Gate

_____

ALU - Moores Machine

```
BBABB____
B___XBBB_
BBSBB__B_
GB____GXB
GB_____B_
BBMBB__B_
B___XBBB_
BBDBB____
_____
```

B = Blustone Dust
A = Adder
S = Subtractor
M = Multiplication
D = Division
G = Power Generator
X = Multiplexor