```
MoCo

Layer (type)                Output Shape            Param #
================================================================
            Conv2d-1     [-1, 64, 112, 112]           9,408
       BatchNorm2d-2     [-1, 64, 112, 112]             128
              ReLU-3     [-1, 64, 112, 112]               0
         MaxPool2d-4       [-1, 64, 56, 56]               0
            Conv2d-5       [-1, 64, 56, 56]          36,864
       BatchNorm2d-6       [-1, 64, 56, 56]             128
              ReLU-7       [-1, 64, 56, 56]               0
            Conv2d-8       [-1, 64, 56, 56]          36,864
       BatchNorm2d-9       [-1, 64, 56, 56]             128
             ReLU-10       [-1, 64, 56, 56]               0
       BasicBlock-11       [-1, 64, 56, 56]               0
           Conv2d-12       [-1, 64, 56, 56]          36,864
      BatchNorm2d-13       [-1, 64, 56, 56]             128
             ReLU-14       [-1, 64, 56, 56]               0
           Conv2d-15       [-1, 64, 56, 56]          36,864
      BatchNorm2d-16       [-1, 64, 56, 56]             128
             ReLU-17       [-1, 64, 56, 56]               0
       BasicBlock-18       [-1, 64, 56, 56]               0
           Conv2d-19      [-1, 128, 28, 28]          73,728
      BatchNorm2d-20      [-1, 128, 28, 28]             256
             ReLU-21      [-1, 128, 28, 28]               0
           Conv2d-22      [-1, 128, 28, 28]         147,456
      BatchNorm2d-23      [-1, 128, 28, 28]             256
           Conv2d-24      [-1, 128, 28, 28]           8,192
      BatchNorm2d-25      [-1, 128, 28, 28]             256
             ReLU-26      [-1, 128, 28, 28]               0
       BasicBlock-27      [-1, 128, 28, 28]               0
           Conv2d-28      [-1, 128, 28, 28]         147,456
      BatchNorm2d-29      [-1, 128, 28, 28]             256
             ReLU-30      [-1, 128, 28, 28]               0
           Conv2d-31      [-1, 128, 28, 28]         147,456
      BatchNorm2d-32      [-1, 128, 28, 28]             256
             ReLU-33      [-1, 128, 28, 28]               0
       BasicBlock-34      [-1, 128, 28, 28]               0
           Conv2d-35      [-1, 256, 14, 14]         294,912
      BatchNorm2d-36      [-1, 256, 14, 14]             512
             ReLU-37      [-1, 256, 14, 14]               0
           Conv2d-38      [-1, 256, 14, 14]         589,824
      BatchNorm2d-39      [-1, 256, 14, 14]             512
           Conv2d-40      [-1, 256, 14, 14]          32,768
      BatchNorm2d-41      [-1, 256, 14, 14]             512
             ReLU-42      [-1, 256, 14, 14]               0
       BasicBlock-43      [-1, 256, 14, 14]               0
           Conv2d-44      [-1, 256, 14, 14]         589,824
      BatchNorm2d-45      [-1, 256, 14, 14]             512
             ReLU-46      [-1, 256, 14, 14]               0
           Conv2d-47      [-1, 256, 14, 14]         589,824
      BatchNorm2d-48      [-1, 256, 14, 14]             512
             ReLU-49      [-1, 256, 14, 14]               0
       BasicBlock-50      [-1, 256, 14, 14]               0
           Conv2d-51        [-1, 512, 7, 7]       1,179,648
      BatchNorm2d-52        [-1, 512, 7, 7]           1,024
             ReLU-53        [-1, 512, 7, 7]               0
```

```
            Conv2d-54          [-1, 512, 7, 7]         2,359,296
       BatchNorm2d-55          [-1, 512, 7, 7]             1,024
            Conv2d-56          [-1, 512, 7, 7]           131,072
       BatchNorm2d-57          [-1, 512, 7, 7]             1,024
              ReLU-58          [-1, 512, 7, 7]                 0
        BasicBlock-59          [-1, 512, 7, 7]                 0
            Conv2d-60          [-1, 512, 7, 7]         2,359,296
       BatchNorm2d-61          [-1, 512, 7, 7]             1,024
              ReLU-62          [-1, 512, 7, 7]                 0
            Conv2d-63          [-1, 512, 7, 7]         2,359,296
       BatchNorm2d-64          [-1, 512, 7, 7]             1,024
              ReLU-65          [-1, 512, 7, 7]                 0
        BasicBlock-66          [-1, 512, 7, 7]                 0
 AdaptiveAvgPool2d-67          [-1, 512, 1, 1]                 0
            Linear-68                 [-1, 256]           131,328
              ReLU-69                 [-1, 256]                 0
            Linear-70                 [-1, 128]            32,896
================================================================
Total params: 11,340,736
Trainable params: 11,340,736
Non-trainable params: 0
----------------------------------------------------------------
Input size (MB): 0.57
Forward/backward pass size (MB): 62.79
Params size (MB): 43.26
Estimated Total Size (MB): 106.63
----------------------------------------------------------------
```