

EMBOSSING APPARATUS AND METHOD OF FABRICATING THE SAME**ABSTRACT**

In various embodiments, an embossing apparatus may be provided. The embossing apparatus may include an input nip roller having an input nip roller axis. The embossing apparatus may also include a heating mechanism. The embossing apparatus may further include a middle roller having a middle roller axis substantially parallel to the input nip roller axis, the middle roller having a diameter at least substantially equal to a diameter of the input nip roller. The embossing apparatus may additionally include a cooling mechanism. The embossing apparatus may also include an output nip roller having an output nip roller axis substantially parallel to the input nip roller axis, the output nip roller having a diameter at least substantially equal to the diameter of the input nip roller.

[FIG. 2]