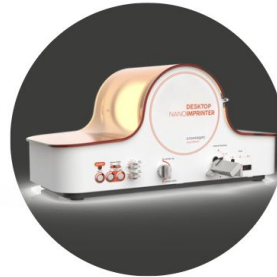


# New and improved world's smallest Roll-to-Plate UV- nanoimprint lithography machine: **Desktop R2P NanoImprinter**

Ritika Singh Petersen



STENSBORG

# Our Services



## Products

Roll-to-Roll & Roll-to-Plate  
UV-nanoimprint lithography prototyping  
and production equipment



## Consumables

Light curing resins and imprint  
templates

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# Desktop R2P NanolPrinter

- Easy to learn, operate and maintain
- Ideal for prototyping and process and product development
- Fast replication of micro/nano features

STENSBO RG

# TWO INTERNATIONAL PATENTS GRANTED

## UK PATENT ANNOUNCEMENT

PRESENTED TO

### Stensborg A/S

A PATENT HAS BEEN GRANTED FOR AN INVENTION ENTITLED "AN OPTICAL ENGINE  
FOR AN IMPRINTER" - GB2576922.

GRANTED BY  
TIM MOSS  
PRIMARY EXAMINER



INVENTORS:  
LEIF YDE  
LARS LINVOLD  
JAN F STENSBORG

## UK PATENT ANNOUNCEMENT

PRESENTED TO

### Stensborg A/S

A PATENT HAS BEEN GRANTED FOR AN INVENTION ENTITLED "METHOD OF, AND APPARATUS FOR,  
PRODUCTION OF SURFACE RELIEF STRUCTURES" - GB2576921.

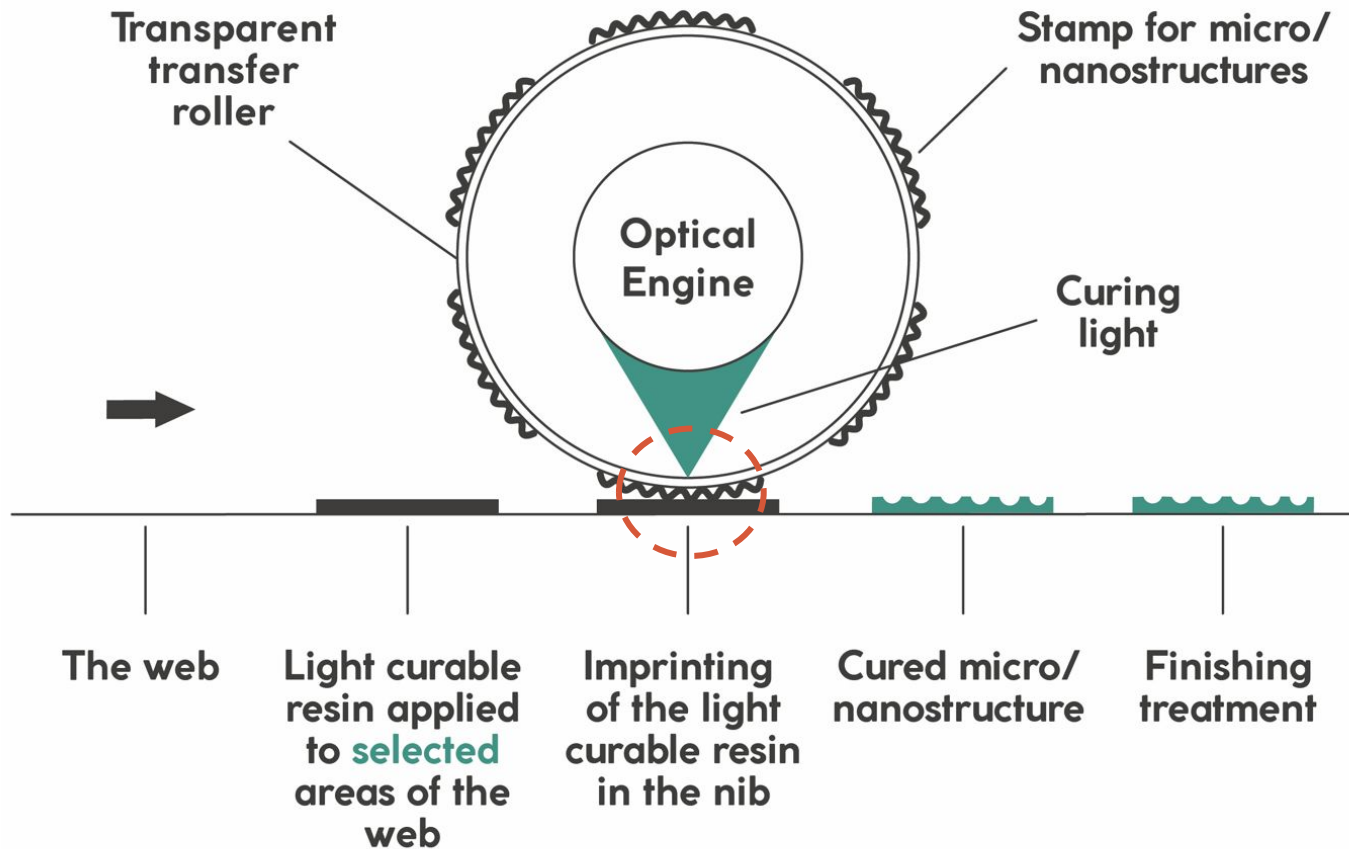
GRANTED BY  
TIM MOSS  
PRIMARY EXAMINER



INVENTORS:  
LEIF YDE  
LARS LINVOLD  
JAN F STENSBORG

# STENSBORG

# Patented HoloPrint® Technology



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# What is new?

2022

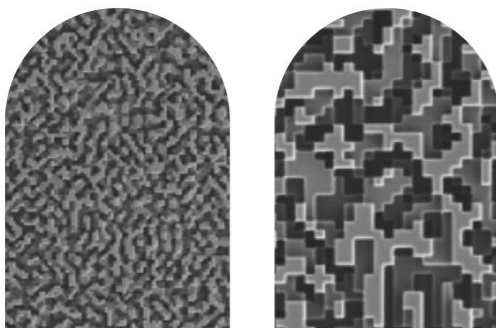
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# R2P NanoImprinter's enhanced features

- Optimised UV light source with better optics;
- Better compensation for different substrate thicknesses;
- Improved design on several mechanical parts;
- Upgraded plate motion control enabling very stable low-speed operations.

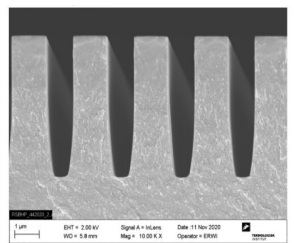


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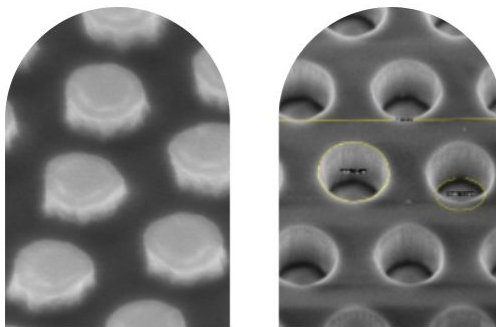


**4-level DOE beam splitter**

Cell width/depth 500nm  
Courtesy of NIL Technology



**Internal trial for  
spectrometry application**



**Hydrophobic surface**

Courtesy of IMT AG

## Multifunctional

- UV Nanoimprinting on hard or flexible substrates
- Fabrication of template
- Reverse Nanoimprinting

## Applications

- Imprinting a substrate that becomes a device like- DOE.
- Imprinting the surface of substrate to make it functional like-a surface for creating a NIL etching mask pattern

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our nano imprinting work.**



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