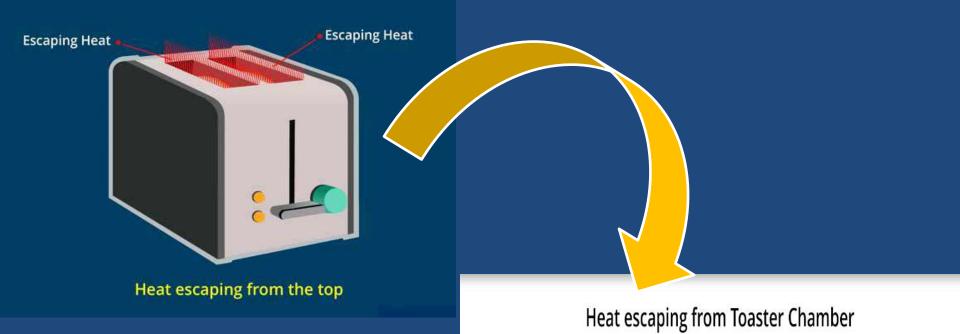


Bipin Deshpande bipin@bipindeshpande.com

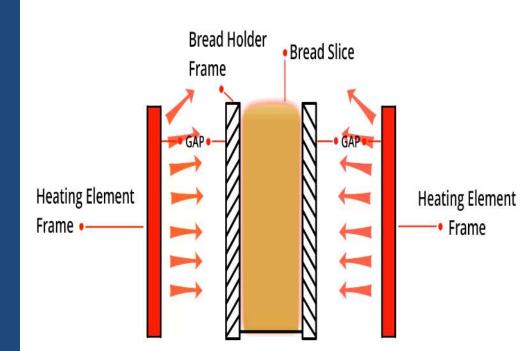
### Reasons for Unevenly Browned Toast

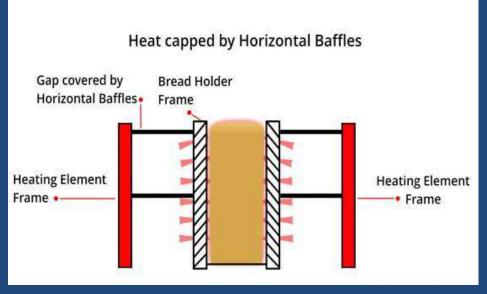
 Hot air moves upwards, and escapes from the open top of the Bread Toaster, resulting in unevenly browned toast

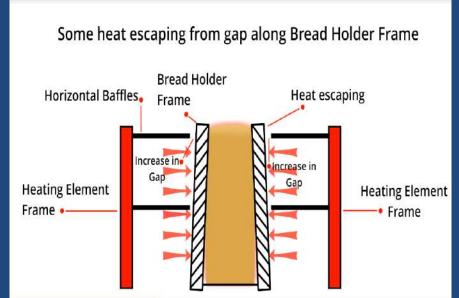
 Moreover, ambient air enters the Toaster from the vertical slits for the Toaster Carriage, resulting in white patches



Heat escapes from the top of the toaster due to the gap between the Heating Element Frame and the Bread Holder Frame



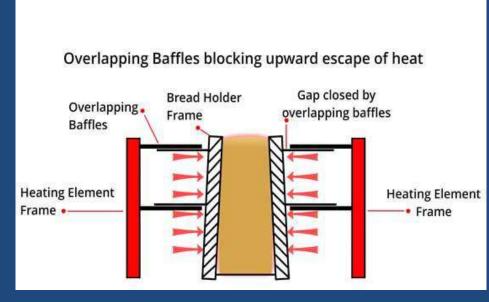


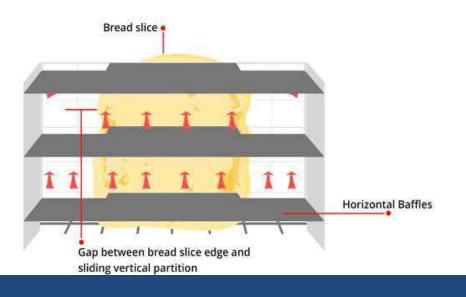


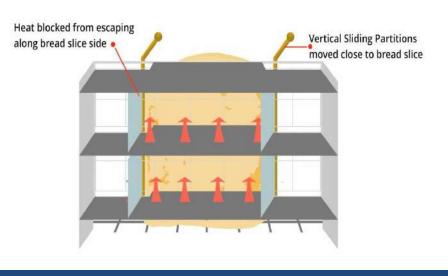
US Patent no 9,888,810 uses Horizontal Baffles to block the escaping heat (top)

In some toasters, the Bread Holder Frame moves inwards, when the bread slice is lowered, creating a narrow gap from where heat can escape (top right)

This problem is solved with Overlapping Horizontal Baffles (right)





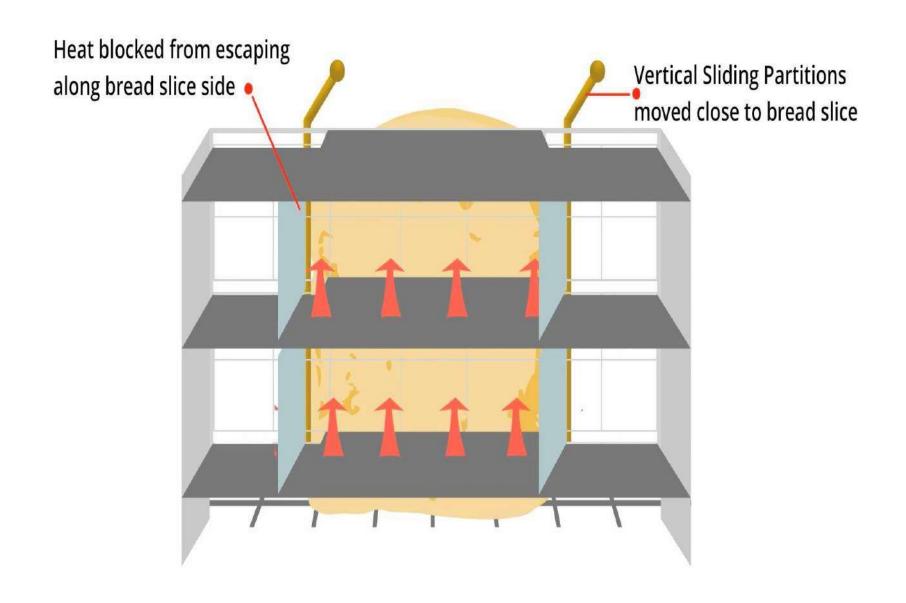


Heat still escapes from along the sides of the bread slice (top left)

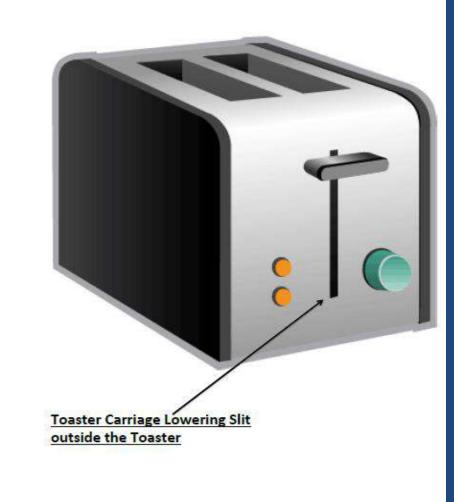
This is because the length of the bread slice could be less than the length of the toaster chamber

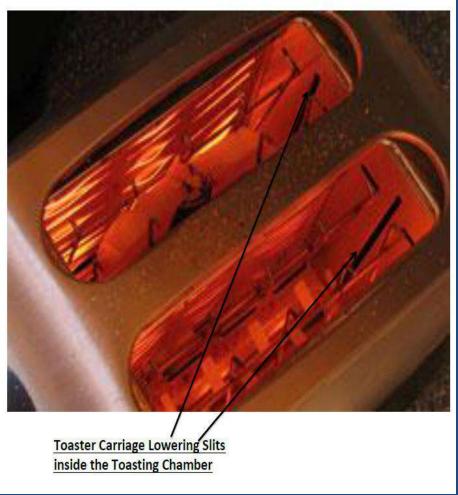
This problem is solved by using Sliding Vertical Partitions (top right), which can be brought alongside the bread slice slides, preventing heat from escaping

#### **Sliding Vertical Partitions**



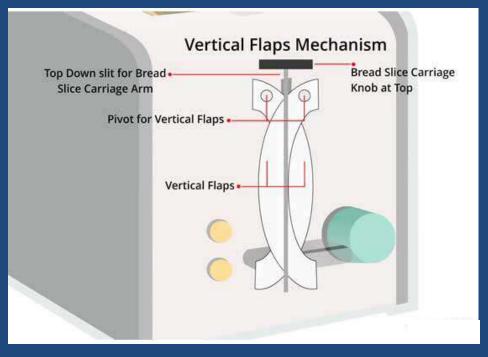
# Ambient air can enter the toaster from the slits to lower the Toaster Carriage!

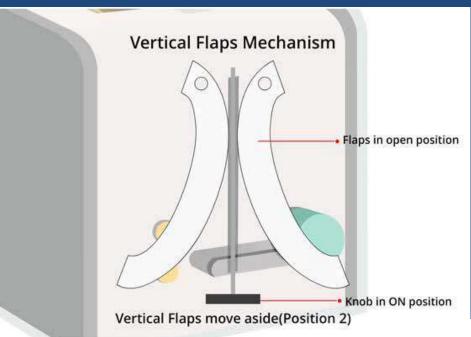




#### Solution: Vertical Flaps

 Vertical Flaps inside the toasting chamber block the vertical slits, preventing cold air from entering the toasting chamber, and also prevent hot air from escaping





Vertical Flaps, form a curtain behind the vertical slit from inside, preventing ambient air from entering the toasting chamber, and also prevent hot air from escaping

When the knob to lower the bread slice carriage is pushed down, the vertical flaps are pushed aside momentarily, and go back to their original positions closing the slit to prevent ambient air from getting in

## Summary of Toaster Features

- 1. Horizontal Baffles (Patent No US 9,88,810)
- 2. Overlapping Horizontal Baffles (patent pending)
- 3. Vertical Partitions (patent pending)
- 4. Sliding Vertical Partitions (patent pending)
- 5. Vertical Flaps (patent pending)

#### Benefits of 'Better Toast' Technology

- Heat retained in Toaster Chamber resulting in more evenly browned toast
- Ambient air prevented from entering the toaster, preventing white patches along edges of the toast
- Reduced power consumption as heat loss is reduced and ambient air is prevented from entering the toaster

## Invitation to License Technology

Would you like to license the 'Better Toast' technology?

Do get in touch!

#### Thank You!

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