



Vidya Jyothi Institute of Technology

(An Autonomous Institution)

(Accredited by NAAC & NBA, Approved by AICTE New Delhi & Permanently Affiliated to JNTUH)

Aziz Nagar Gate, C.B. Post, Hyderabad-500 075

Department of Electrical & Electronics Engineering

2020-21

PICTIONARY

Prepared by:

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Subject: Power Electronics

Academic Year: 2020-2021

Title of Innovative method/activity: Pictionary

Pictionary focuses on giving clarity of concepts related with circuit diagrams and block diagrams in the co-construction of knowledge

Aim of the method: To allow students to convey the meaning of the concept through pictures such that logical skills, creativity, retention and cognition is improved.

Implementation/Portrayal of method:

This teaching method is inspired from dumb charades guessing game. This activity is done by teams where the students try to identify the picture/ block diagram/ circuit or any concept related with pictures enacted by their teammates and have to draw the picture/ block diagram /circuit correctly on the blackboard in the stipulated time.

Benefits of method: This activity helps the students to remember the block diagrams, circuits and also the concepts with means of pictures and block diagrams.

Topic: Single Phase Controlled Converters, DC-DC Choppers

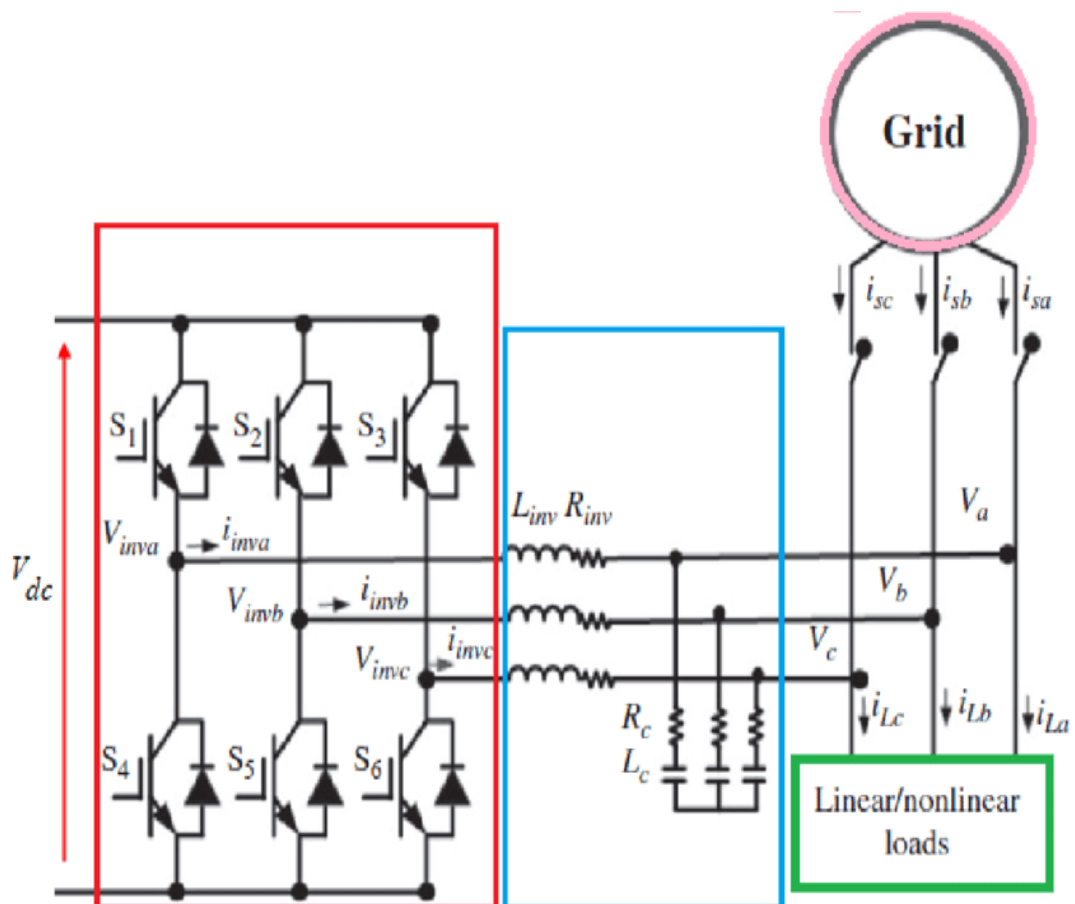




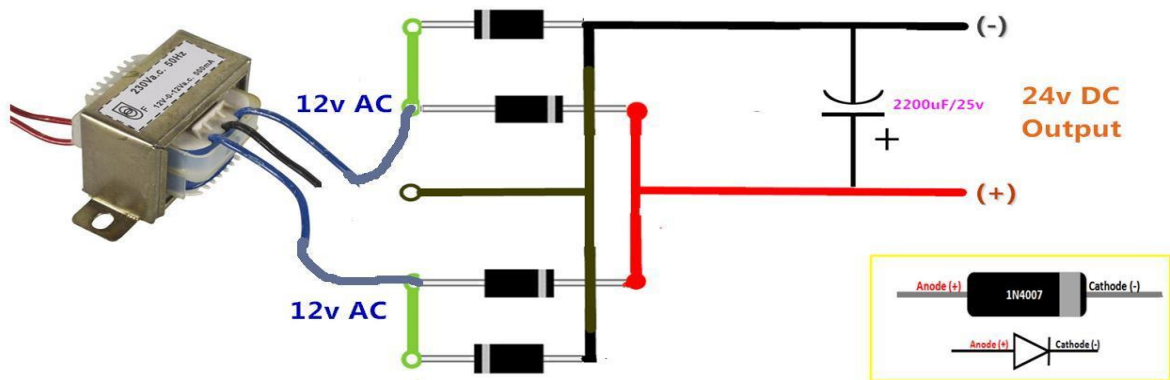
Fig:Pictionary

PICTURES:

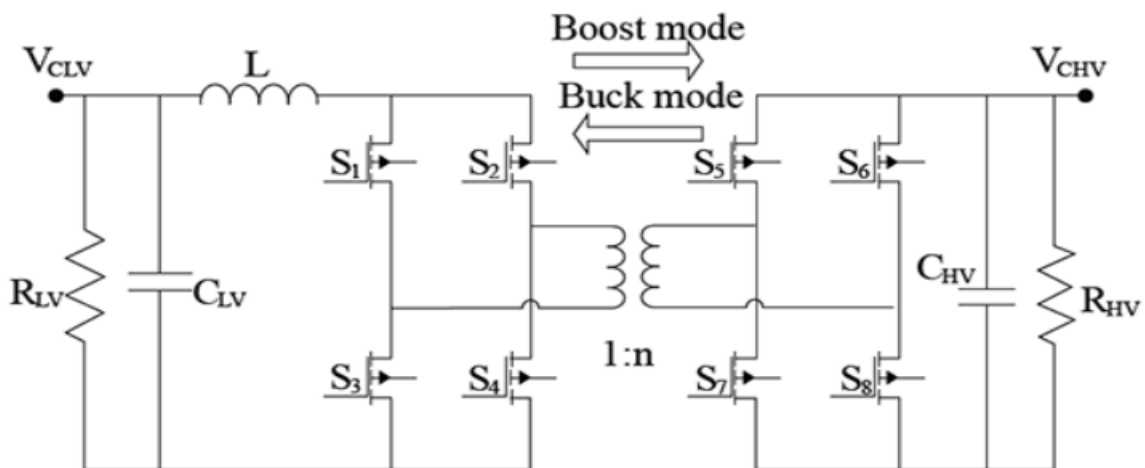
What is the Power Converter used in the circuit?



What is the Power Converter in the following Circuit?



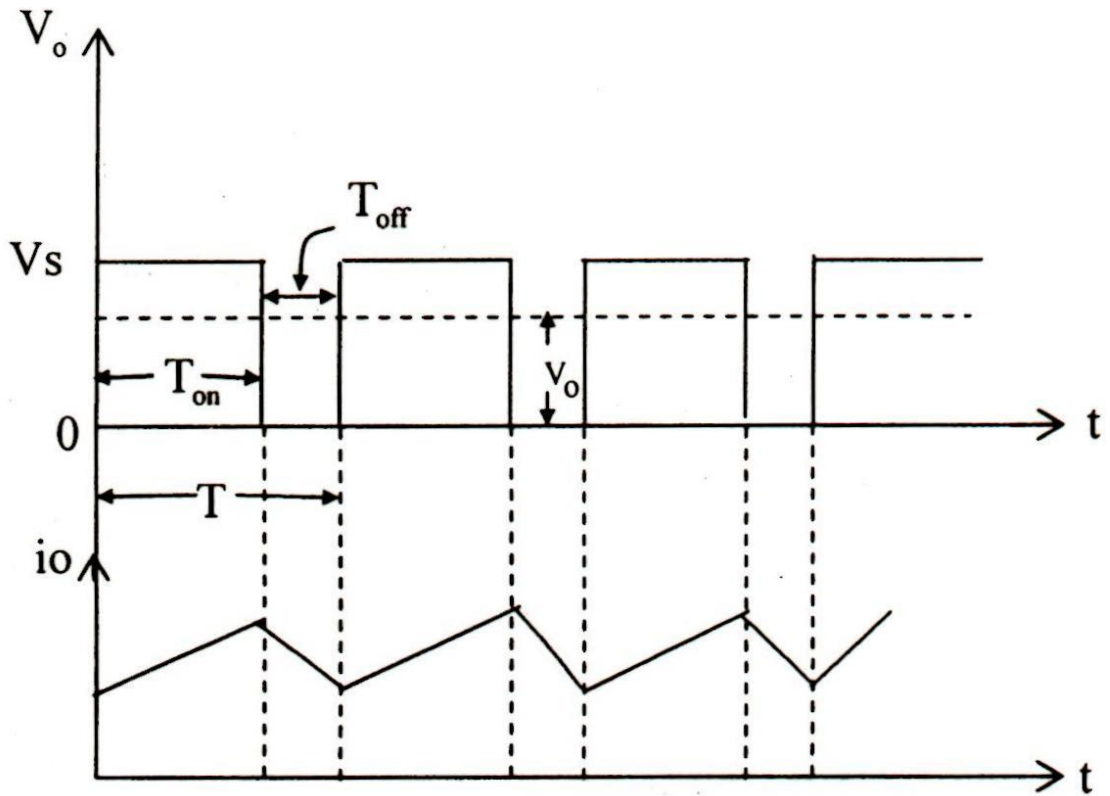
What is the conversion happening in the below converter?



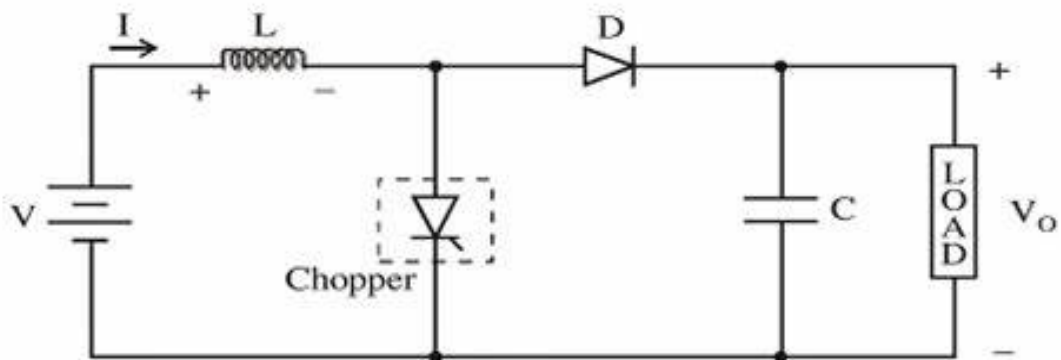
Illustrate Circuits used for the below Converter operations.



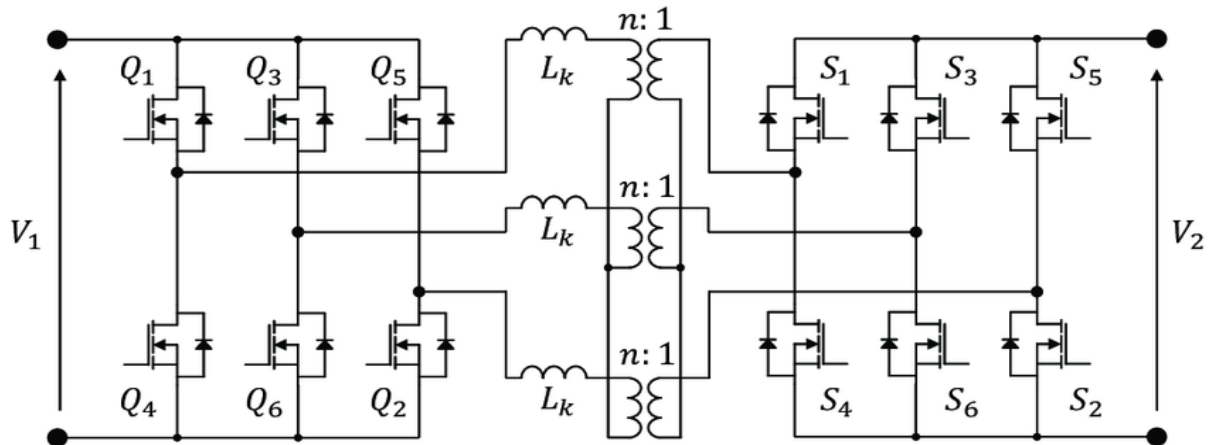
Draw the circuit diagram of the circuit which may give out the following voltage and current waveforms



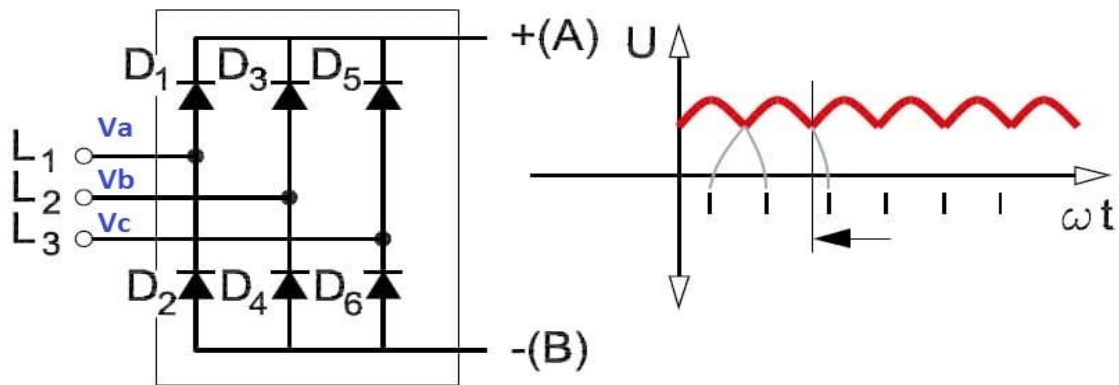
Identify the chopper in the following circuit.



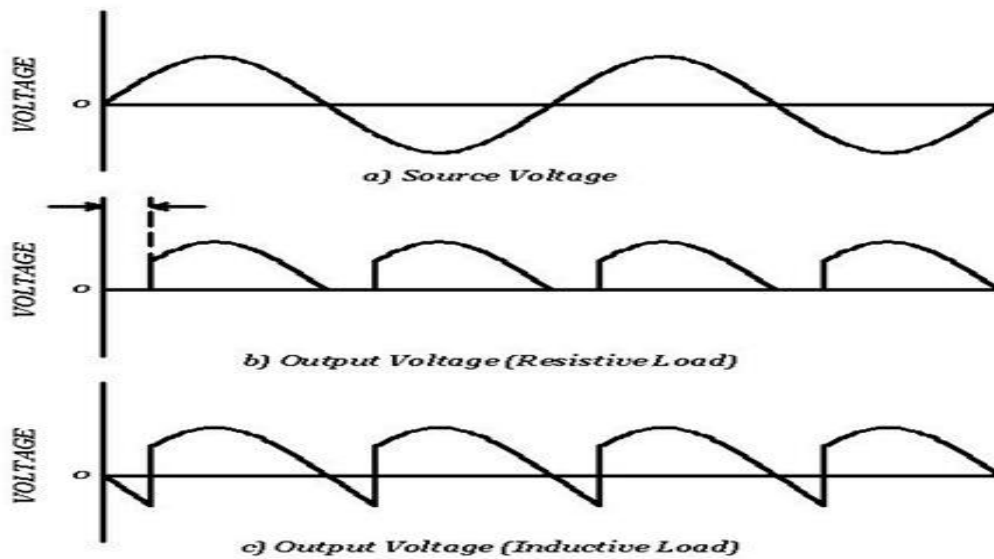
What is the circuit shown below? Identify the conversions happening.



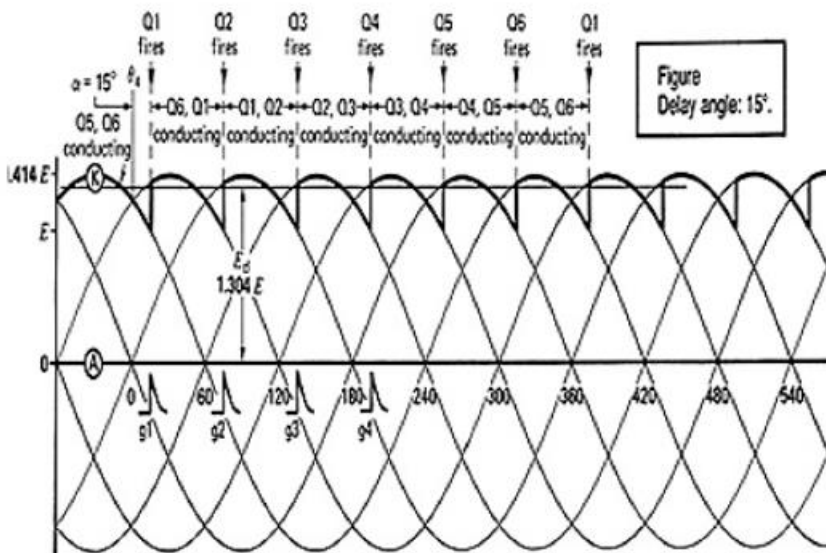
Identify the operation of the following circuit.



Draw the circuit which can give out the following waveforms



Identify the circuit of which gives the following outputs



Outcome: This activity helps the students to remember the block diagrams, circuits and also the concepts with means of pictures and block diagrams.

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