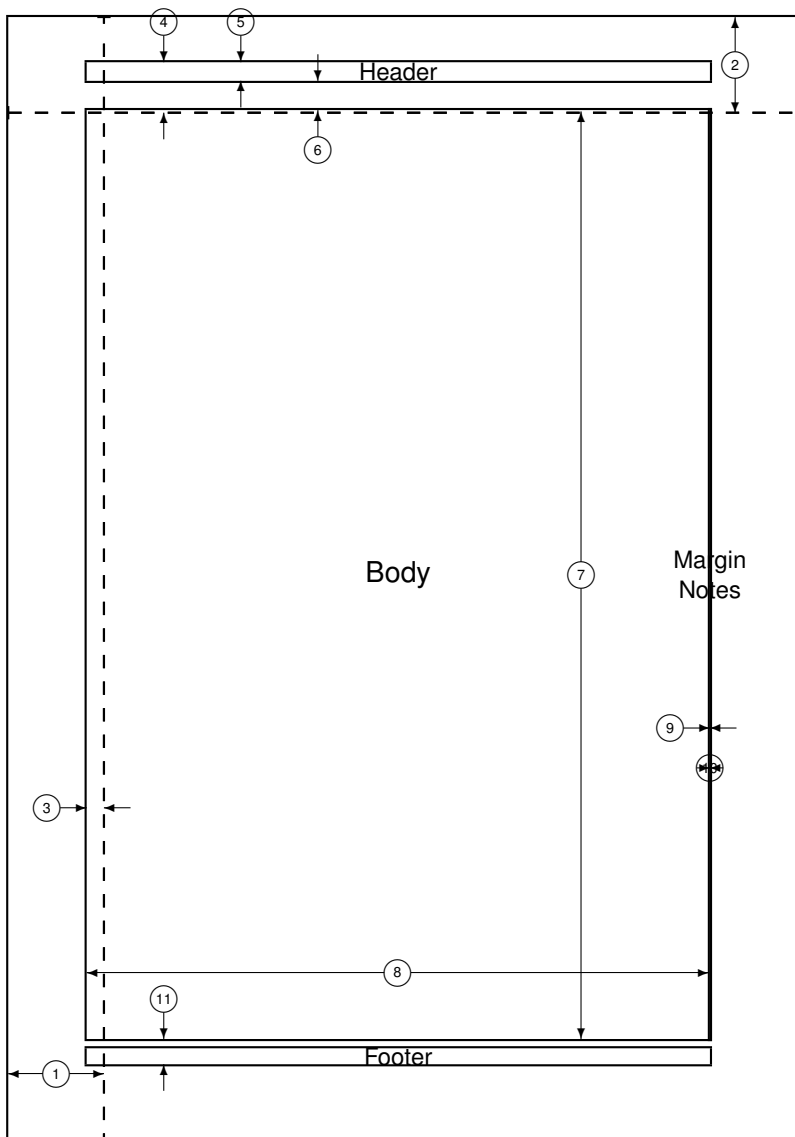


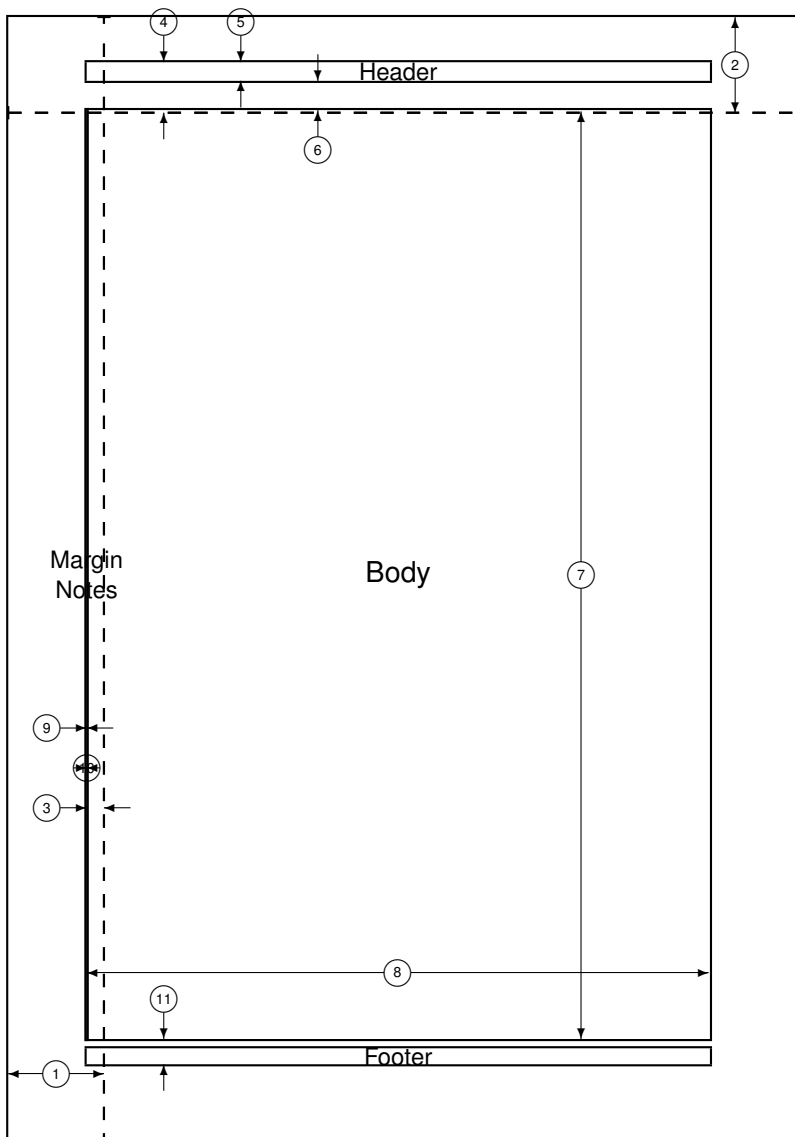


**FALTA TITOL CATALA!**





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| 3  | \oddsidemargin = -13pt | 4  | \topmargin = -38pt               |
| 5  | \headheight = 14pt     | 6  | \headsep = 22pt                  |
| 7  | \textheight = 699pt    | 8  | \textwidth = 469pt               |
| 9  | \marginparsep = 0pt    | 10 | \marginparwidth = 0pt            |
| 11 | \footskip = 19pt       |    | \marginparpush = 7pt (not shown) |
|    | \hoffset = 0pt         |    | \voffset = 0pt                   |
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# **CHAPTER 1. INTRODUCTION**

## **1.1 Motivation of the Project**





## **CHAPTER 2. MODELING MAGNETIC INDUCTION SYSTEM**



# **CHAPTER 3. ARCHITECTURE AND DESIGN OF THE WPT SYSTEM**



## **CHAPTER 4. EXPERIMENTAL RESULTS**



# CONCLUSIONS





# BIBLIOGRAPHY



# **CHAPTER 5. INDUCTANCE CHARACTERIZATION**

## **5.1 Inductance Estimation Table**

## **5.2 Equivalent coil impedance**



## CHAPTER 6. MODEL EQUATIONS

### 6.1 Secondary capacitor in series

### 6.2 Secondary capacitor in parallel

The same steps as above are followed for obtaining the impedances  $Z_2$  and  $Z_R$  when the secondary capacitor is placed in parallel:



# **CHAPTER 7. COILS EXPERIMENTAL RESULTS**

## **7.1 Inductance and Resistance**

## **7.2 Quality Factor**





# **CHAPTER 8. CIRCUIT SCHEMATICS**

## **8.1 Voltage Regulator**