Pits

Grow in the form of slumps in the primary pits fields in a primary walls, can be discrimination several types of pits , including :

1- primary pits fields

It's appear in the primary walls in the form of slumps. they can see in the side view as a rosary form , the thick part represent the primary wall and from accumulation of this slumps the primary pits fields will form . A cytoplasma Flosses passing through the primary pits fields called protoplasm Bonds.

2- Simple Pits

The secondary walls discrimination by it. Can be studying it in the transfer elements in wood , it's Made up from the basic constituents which composed from Standard pits . it including

A-Pit membrane

Represents the middle lamella and primary walls .

B- Pit cavity

Located between the Pit membrane and cell cavity.

c- pit bore

it's exist in the end of Pit cavity when they met the cell cavity.

3- Barbered pits

through it the secondary wall will separated from the pit membrane. And its extending inside cell with gradual in fineness to form border , and the borders lip never meet in middle but stile divergent to form central pore called pit pore. And it can studying in Gymnospermae like Pinales .

4- Branched Pits

Appear when the wall thickness is increase A large increasing so the pits will be deep and take channel form connect between the cavity and surface of cell. It can studying in the stone cell that existing in the European Pear Fruits

Pit Combination

Mostly the pits existing on the side of the wall are combination with other similar pits or with differs pits on the other side. The two combinations pits called the pit pair .

There are many collections are results from pits combinations , including :

1- Simple pit pair

In which the simple pit on the side of wall combine with other similar to it on the other side , like pits existing in the Parenchyma Cells with second walls.

2- Bordered pit pair

In which the Bordered pit on the side of wall combine with other similar to it on the other side , can be noted in the walls that sported between two carrier elements in wood elements .

3- Half- Bordered pit pair or Semi- Bordered pit pair

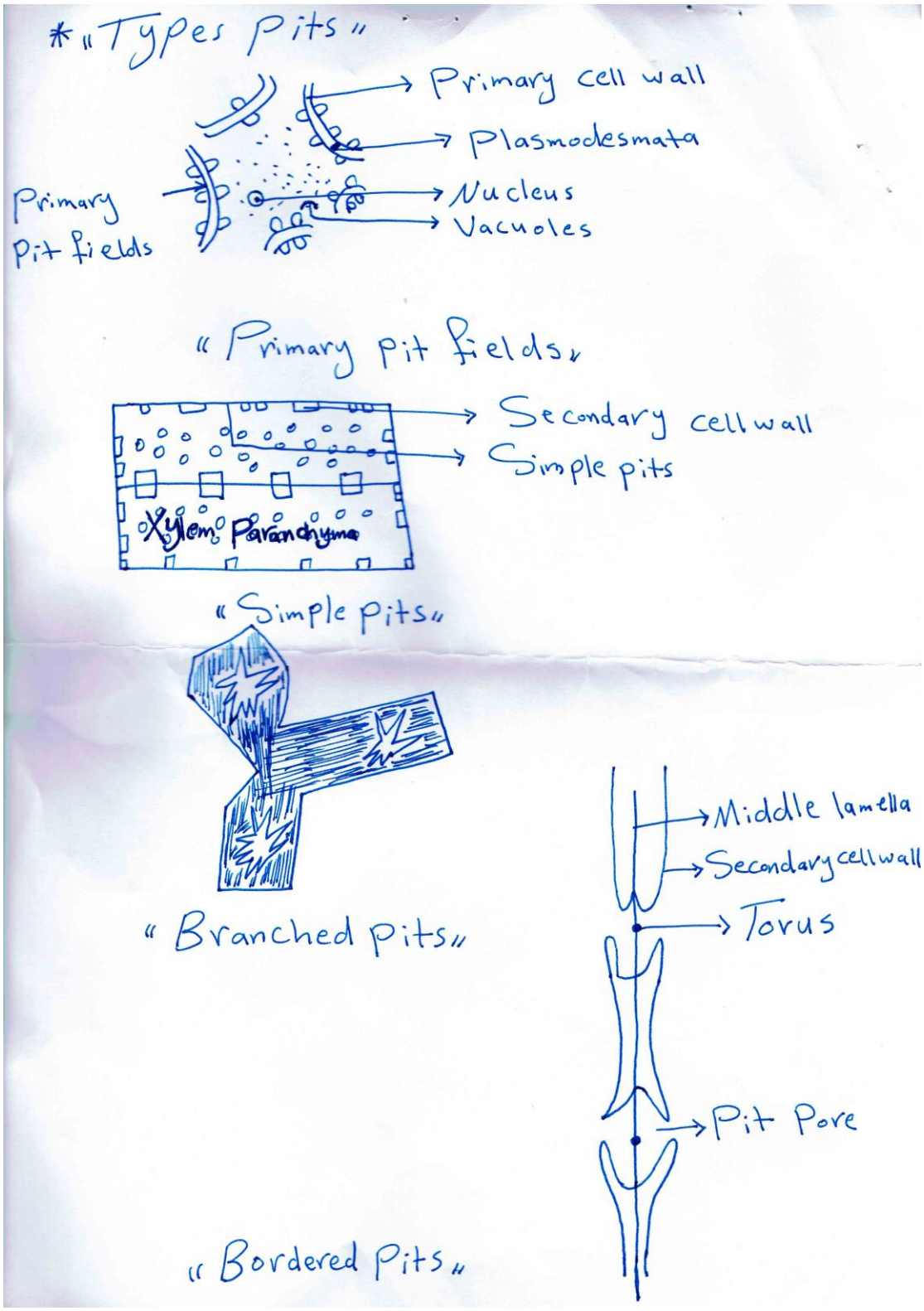
In which the Bordered pit on the side of wall combine with simple pit on the other side , can be noted in the walls that sported between carrier element in wood elements .

4- Unilaterally compound pitting

In which one pit on the side of wall combine with more than one pit on the other side.

5- Blind pit

The pit existing in the side of wall not combine with the pit on the other side , like in pits that opposite to it interfacial spacing or which form in the separated walls between Tracheids and fibers.


* "Types pits"
Primary cell wall
Plasmodesmata
Nucleus
Vacuoles
Primary pit fields
"Primary pit fields"
Secondary cell wall
Simple pits
Xylem Parenchyma
"Simple pits"
"Branched pits"
Middle lamella
Secondary cell wall
Torus
Pit Pore
"Bordered pits"