

HERBARIUM OF THE AMAZON JUNGLE

collected and prepared by the students of
I Liceum Ogólnokształcące im. prof. Zbigniewa Religi
in Zabrze, Poland

edited by Agnieszka Zdechlik

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as part of Erasmust+ project

“Educating ecologically conscious young European
citizens through joint entrepreneurial activities”
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PREFACE

The Amazon Jungle covers more than 5.5 million square kilometres of the Amazonia region in South America. This rainforest lies in nine countries, 60 % of it is in Brazil. The Amazon Rainforest makes up more than a half of all the rainforests on our planet and that is why it is called "the green lungs of the Earth". The trees absorb carbon dioxide, which prevents this gas from entering the atmosphere and causing the greenhouse effect. The trees also absorb heavy rainfall, preventing floods and mudslides.

The Amazon Rainforest is also the most varied in terms of the species of flora and fauna on our planet. The plants and animals inhabiting this area can be beneficial for the people – we can use them to produce e.g. medicine. In spite of the vast range of plants, animals and insects scientists estimate that there are hundreds of Amazonian plants still unknown to people and thus unused. However, due to the continuous deforestation of this area permitted by the governments many still undiscovered plants disappear each day and we will never have a chance to examine them and use to our advantage

This herbarium is a collection of imaginary plant species which could be found in the Amazon rainforest. After the classes in Palmiarnia in Gliwice, Poland the students of I Liceum Ogólnokształcące im. prof. Zbigniewa Religi in Zabrze, Poland imagined being scientists on an expedition to the Amazon Jungle who were lucky to discover a species of a plant earlier unheard about in a scientific world. Then the students painted their plants and prepared prepared a description of their plants focusing on reasons why their non-existent plants might be so important for the human race.

We would like to encourage you to have a look at the beautiful plants which one day might be discovered by a

person determined to travel to South America and do research on the plants found there. We would also like you to think about our planet and the influence people have on it. Are all our activities good for the earth and people living there? Is there anything we can do to at least slow down the pace at which the climate change is happening?

NAME: FILTERFLOWER

TYPE: flower

HABITAT: swamps

SPECIAL FEATURES

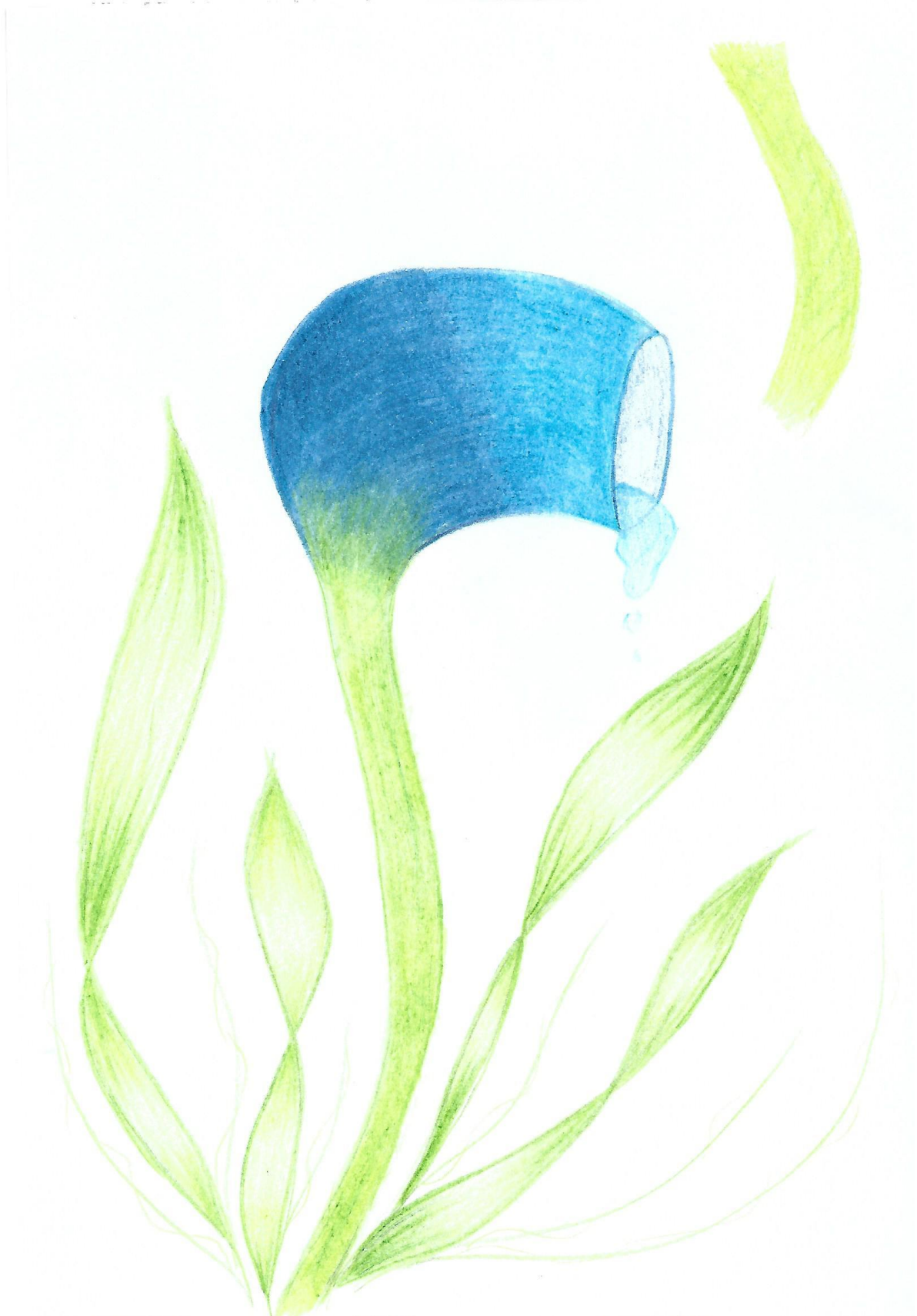
These flowers have special filters in their stems.

WHY IT IS IMPORTANT FOR PEOPLE

They incept underground water and filter it with the filters in their stems. In that way people can use this water straight out of a flower and they don't need any unnatural or artificial filters. This can help with the air dryness around the world.

NAME OF THE DISCOVERER: Karolina Hewlik

FILTERFLOWER



NAME: Classic BurryPan

TYPE: flower

HABITAT: wooded areas

SPECIAL FEATURES

This plant has a few special features. The first of them is very useful for humans. It is circular, purple fruits from which you can prepare an unusual sirup boosting an organism which lacks sleep. The next important element of the plant is its leaves that filter water, which makes it drinkable. The water accumulates under that plant into small pools from which both animals and humans can drink perfectly clean water. However, the yellow flower with claret tendrils serves the plant's last function. It protects the plant against any predators which may attack it. The flower elongates its tendril and catches the opponent, which gets scared and runs away.

WHY IT IS IMPORTANT FOR PEOPLE

This plant is important for people, because it filters the water in a natural way and adds vitamins and nutrients. The purple fruits can be used to make natural, healthy energy drinks.

NAME OF THE DISCOVERER: Julia Stanisz

CLASSIC BURRYPAN



NAME: Jellyfish Tear

TYPE: river lichen

HABITAT: rivers, in particular the Amazon River

SPECIAL FEATURES

Lichens live and perform their tasks for at least 100 years. These plants are characterized by an interesting range of colors, especially blue, pink and violet. They have leaves which look like frills made of delicate silk, but in fact they are very durable and strong. There are also long stems that are used to propagate the plant. The leaves and stems are attached to a huge fruit of the plant, which protects the lichen and provides a permanent support. The roots are poisonous to animals to keep them away from the most important element of the plant, which is a special part of the fruit. This fruit allows the plant to survive underwater.

WHY IT IS IMPORTANT FOR PEOPLE

This plant is very important for the entire ecosystem because the super power of this lichen is to purify and filter water in which the plant lives. The lichen absorbs nitrogen which is found in rivers due to the use of fertilizers in agriculture. The part of the plant that filters dirty river water is the dark pink part of the fruit, which is protected by the roots. The plant after 30 years will stop filtering water but we will be able to produce natural fertilizers from them.

NAME OF THE DISCOVERER: Emilia Gola

JELLYFISH TEAR



NAME: The oilheart tree

TYPE: bush

HABITAT: humid and warm surroundings of rivers and lakes

SPECIAL FEATURES

Heart-shaped leaves with high oil content, the root system is often larger than the above-ground part of the plant

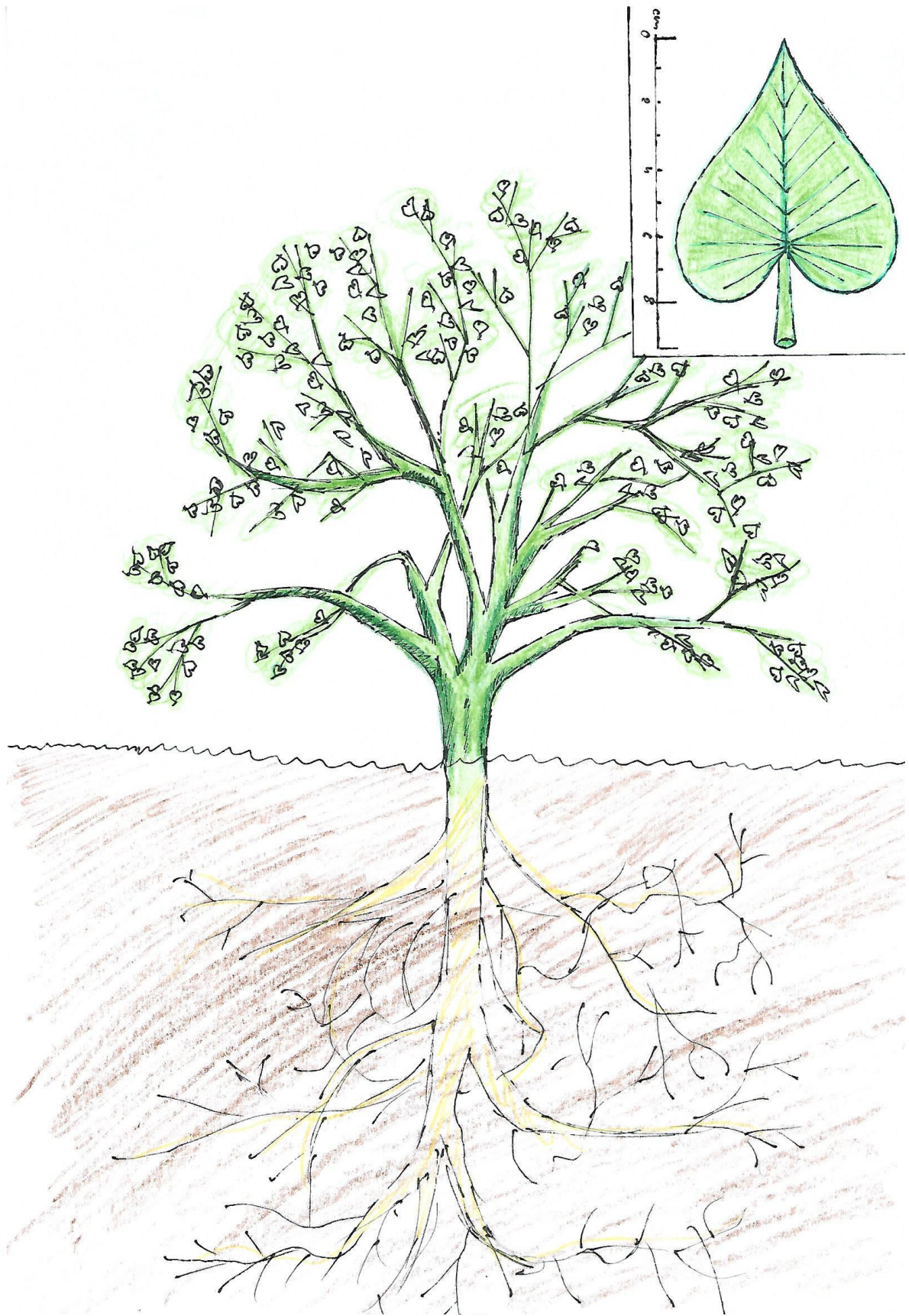
WHY IT IS IMPORTANT FOR PEOPLE

Its leaves are salty and spicy, with a high content of oil and protein so they are used as an addition to dishes (often meat) and when fried, they are a tasty and nutritious snack.

The oilheart tree extracts salt from the soil, enabling the reclamation of highly saline areas

NAME OF THE DISCOVERER: Anna Knapik

THE OILHEART TREE



NAME: *Miraclera Amazonis*

TYPE: flower

HABITAT: Amazon Jungle – grows on mosses

SPECIAL FEATURES

It affects the treatment of cancer.

WHY IT IS IMPORTANT FOR PEOPLE

The fruits of this flower have amazing, miraculous properties for the human body. The juice contained in the balls of the upper part of the plant have cancer healing properties. This plant can save millions of lives.

NAME OF THE DISCOVERER: Piotr Orzechowski

MIRACLERA AMAZONIS



NAME: Sheki

TYPE: herb

HABITAT: jungle

SPECIAL FEATURES

It has red fruits at the end of the stem. It has leaves.

WHY IT IS IMPORTANT FOR PEOPLE

Eating its fruits can reduce vision and hearing defects. Thanks to these fruits, people see and hear perfectly well.

NAME OF THE DISCOVERER: Miłosz Franckiewicz

Sheki



NAME: *Magica oasis*

TYPE: herbs

HABITAT: evergreen forests

SPECIAL FEATURES

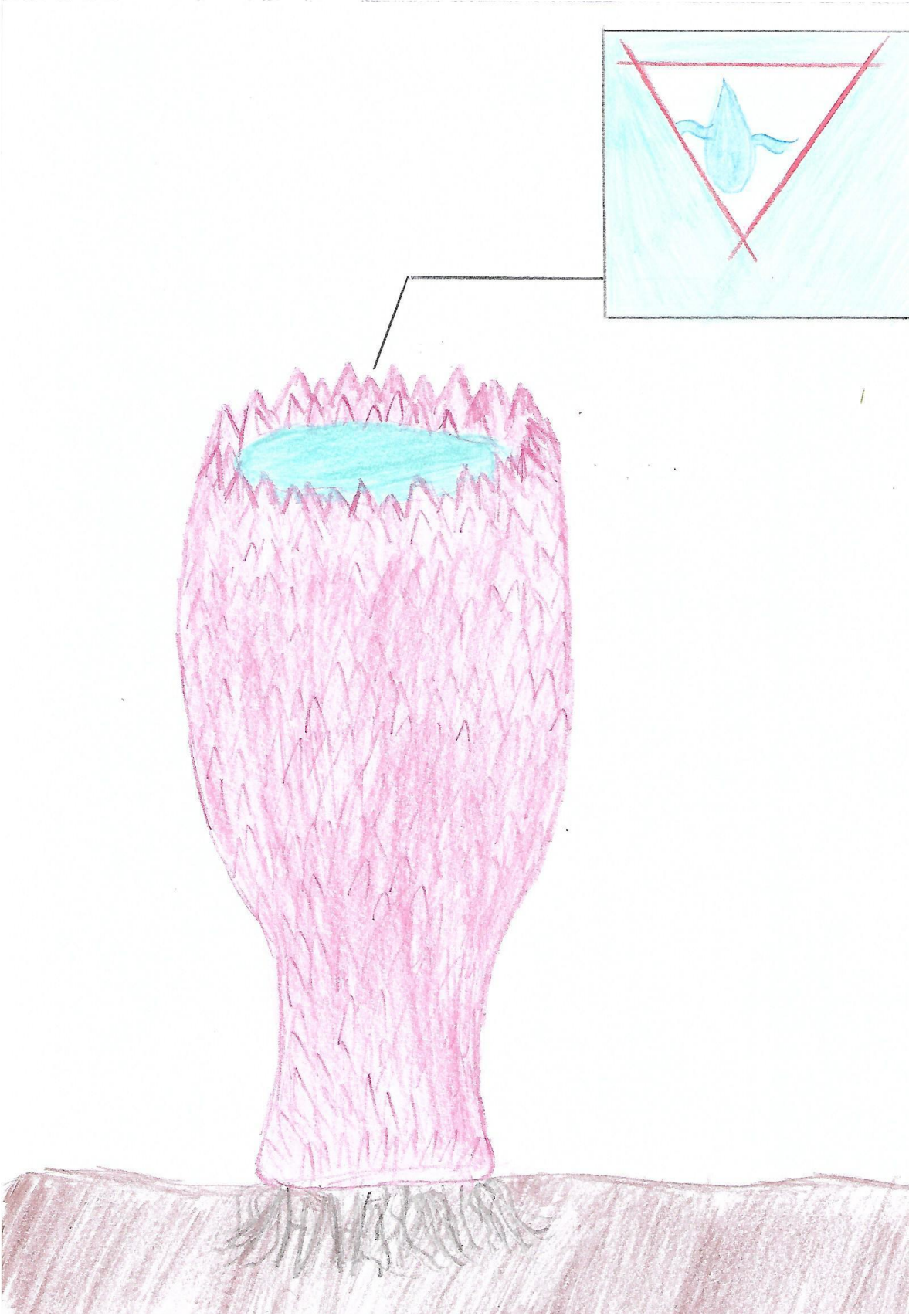
It's a tall flower of a herb species. This flower is made of pink leaves. Between these leaves you can find a special liquid, which looks like water. It is "magical water". But in this liquid there is also a water drop in a shape of a red triangle. When you look closer, you will see this triangle, which is floating on a "magical water".

WHY IT IS IMPORTANT FOR PEOPLE

It is important because if you drink this magical water you will never be thirsty. If we give these herbs to all the people in the world, we can solve the water shortage problem. All you need to do is one drink of this water and it will be enough for all your life. We could rescue millions of people.

NAME OF THE DISCOVERER: Filip Banaszekiewicz

Magica oasis



NAME: Amazon Cocktail

TYPE: flower

HABITAT: wetlands, mostly near large bodies of water

SPECIAL FEATURES

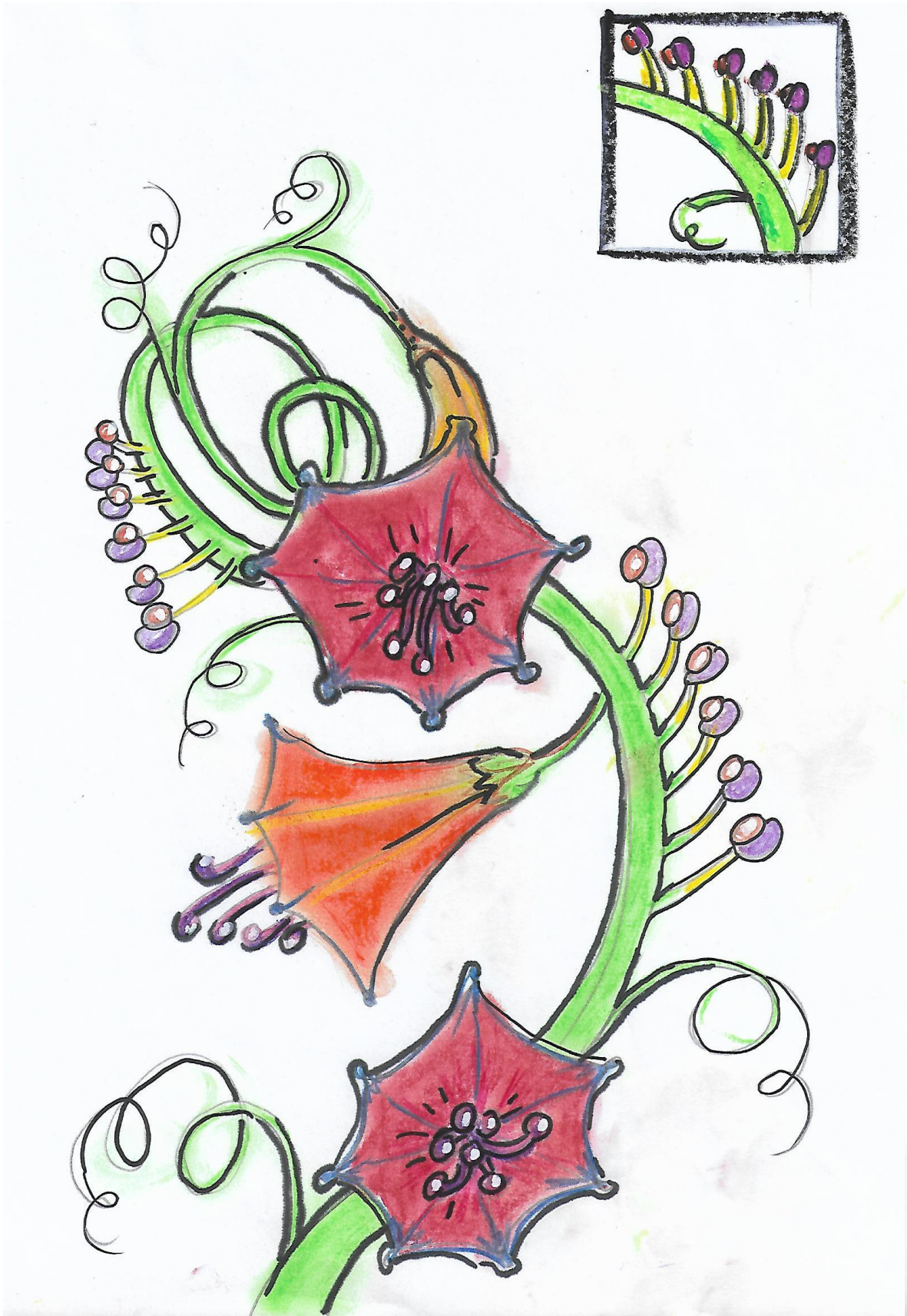
purple balls with yellow tips, green curled stems, two types of flowers with intense colours.

WHY IT IS IMPORTANT TO PEOPLE

It is very important for people because the whole plant has quite a few uses but the purple balls have the greatest use. The plant grows near bodies of water so it is perfect for its role. The balls on the stems in the last phase of flowering fall into the water. The orange-yellow tips dissolve in the water producing bubbles. In turn, the balls collect all the impurities and thoroughly filter the water. The plant helps the environment and also helps people because it filters the water to make it clean and drinkable. This makes it easy for people to drink water from the sea, lakes and rivers. Filtration also helps fish, making them more plentiful, which also provides food for people.

NAME OF THE DISCOVERER: Zofia Chuchata

AMAZON COCKTAIL



NAME: Glowing tree

TYPE: tree

HABITAT: forests near water reservoirs

SPECIAL FEATURES

glowing, lantern-like fruits. Natural holes in the trunk can be used by small animals as houses. Large trunk is made of several vines twisting in a spiral.

WHY IT IS IMPORTANT TO PEOPLE

It is able to heal wounds and its fruits are source of light. It can be planted in parks or gardens and it can replace lanterns and can be used as an ecological source of light. You can also obtain a cyan dye from leaves which is very rare in nature and yellowish dye that creates a bright glow from the juice of the fruits.

NAME OF THE DISCOVERER: Anna Szufiadowicz

GLOWING TREE



NAME: Star Pearl

TYPE: flower

HABITAT: acidic soil (best in the Amazon jungle)

SPECIAL FEATURES

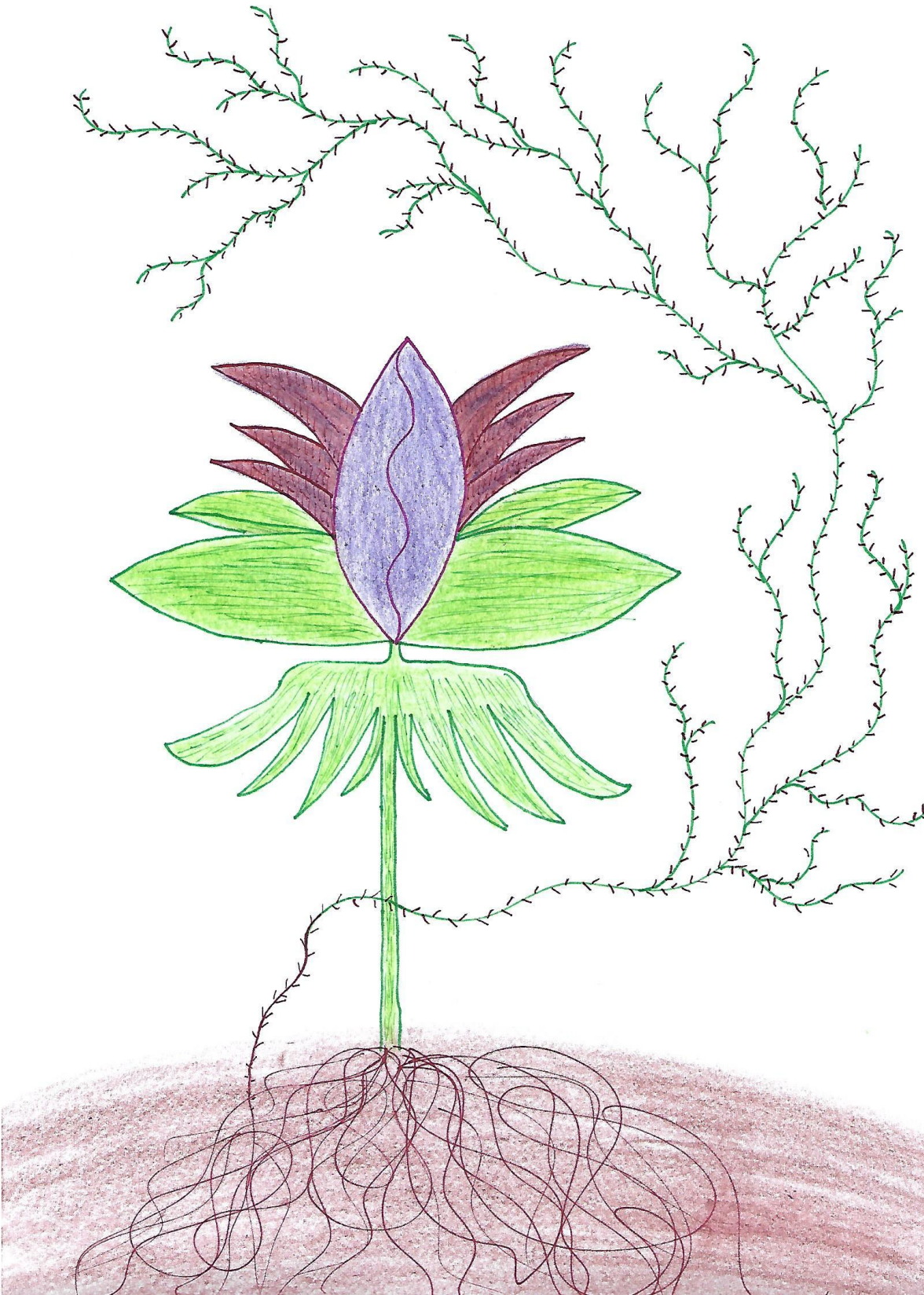
large sprawling flower with a bud that is surrounded by spiky leaves and lianas.

WHY IT IS IMPORTANT TO PEOPLE

The oil that can be extracted from the bud of the star pearl immediately stops bleeding from wounds in both humans and animals

NAME OF THE DISCOVERER: Michał Szymański

STAR PEARL



NAME: Konradus Hydrogenus

TYPE: shrub

HABITAT: very humid, warm places in the jungle

SPECIAL FEATURES

emits hydrogen through blue pipes inside leaves.

WHY IT IS IMPORTANT TO PEOPLE

It can very efficiently produce hydrogen, what can revolutionize industrial production of this gas. Hydrogen can be used to build blimps, fuel for space rockets. Hydrogen is essential to produce electric energy.

NAME OF THE DISCOVERER: Konrad Bartoszewicz

KONRADUS HYDROGENUS



NAME: Mrs. Healing

TYPE: flower

HABITAT: at the foot of hills near water sources

SPECIAL FEATURES

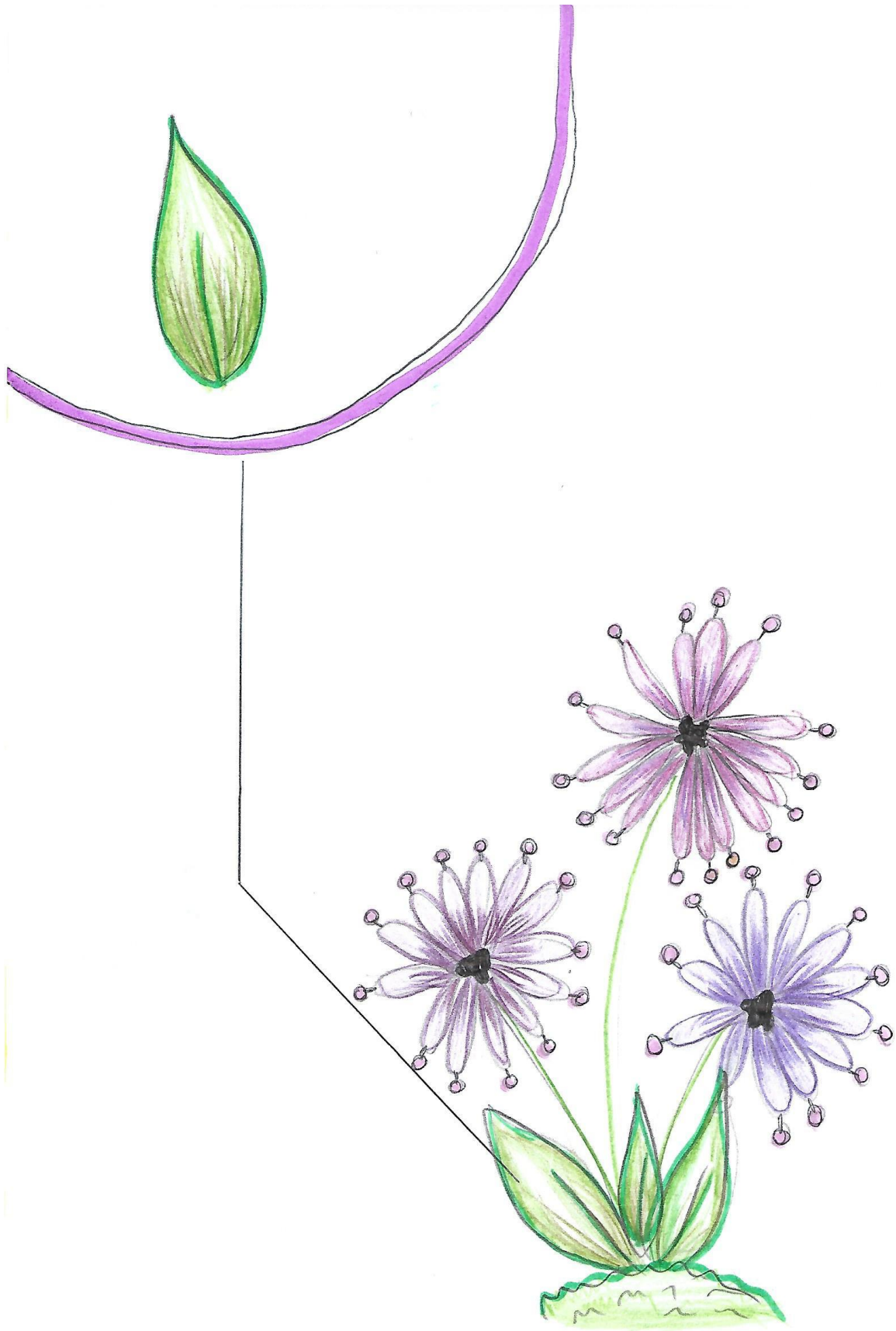
The leaves of this flower heal various wounds at extremely fast pace. Even very deep wounds can heal in maximum 30 minutes. The leaves also heal inflammation

WHY IT IS IMPORTANT TO PEOPLE

These leaves can save lives of hundreds of people. Hemorrhages from deep wounds caused in accidents do not have to be so terrible now. Moreover, people do not have to worry about dangerous inflammations that can threaten their lives.

NAME OF THE DISCOVERER: Martyna Żak

MRS. HEALING



NAME: Killcann

TYPE: flower

HABITAT: dry areas

SPECIAL FEATURES

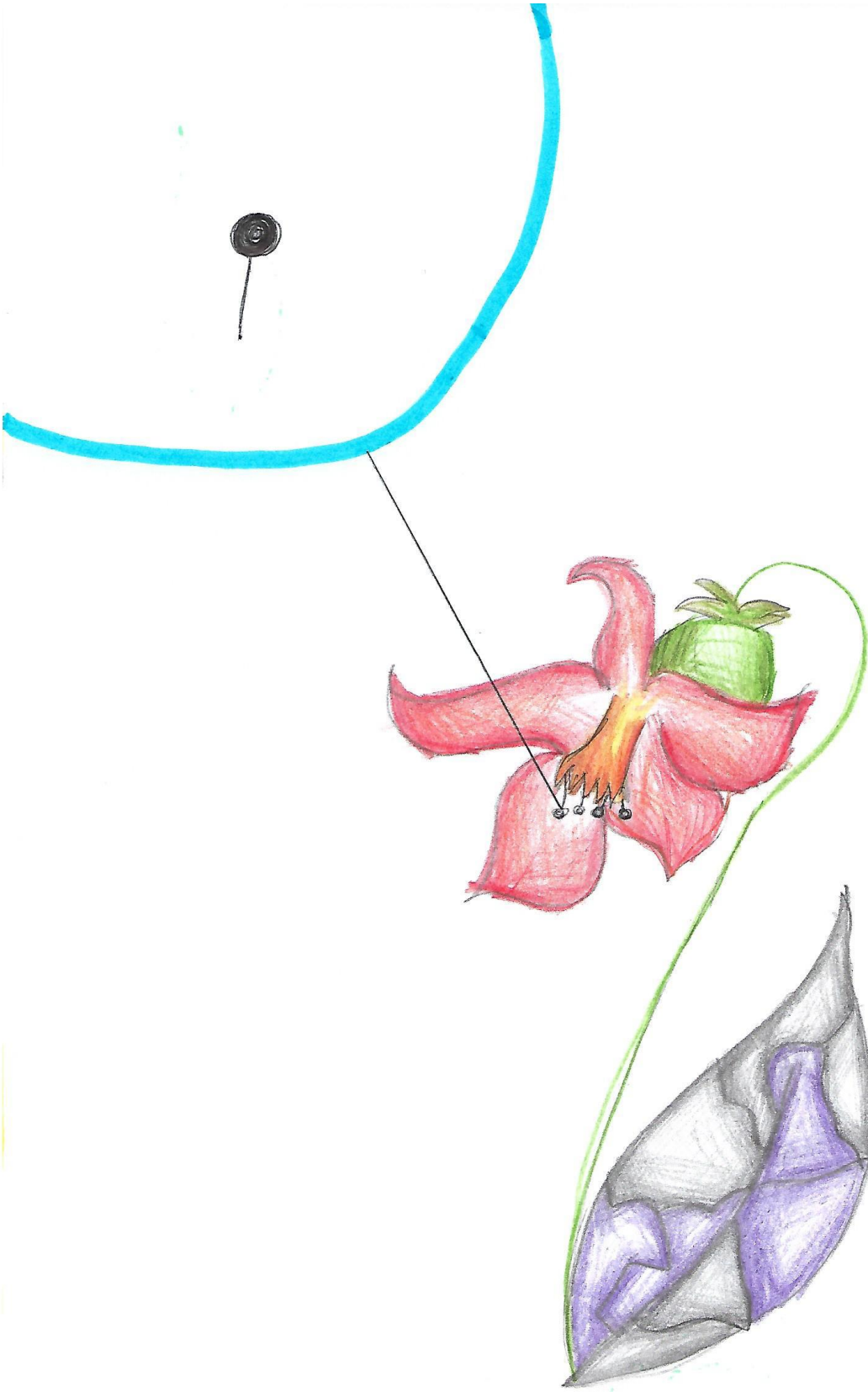
The stamens of this flower have such a property that when we add one stamen to medicine given to patients during chemotherapy, the bodies of these patients start to produce special cells which destroy cancer cells and after the treatment the patients are healthy and no cancer cells can be found in their bodies. Moreover, it is very unlikely that cancer will reappear.

WHY IT IS IMPORTANT TO PEOPLE

This flower and its stamens are of great importance in medicine as it kills cancer cells in human organism. It enhances the effects of chemotherapy and when added to the medicine it reduces the nausea.

NAME OF THE DISCOVERER: Martyna Żak

KILLCANN



NAME: Luckytree

TYPE: tree

HABITAT: damp places

SPECIAL FEATURES

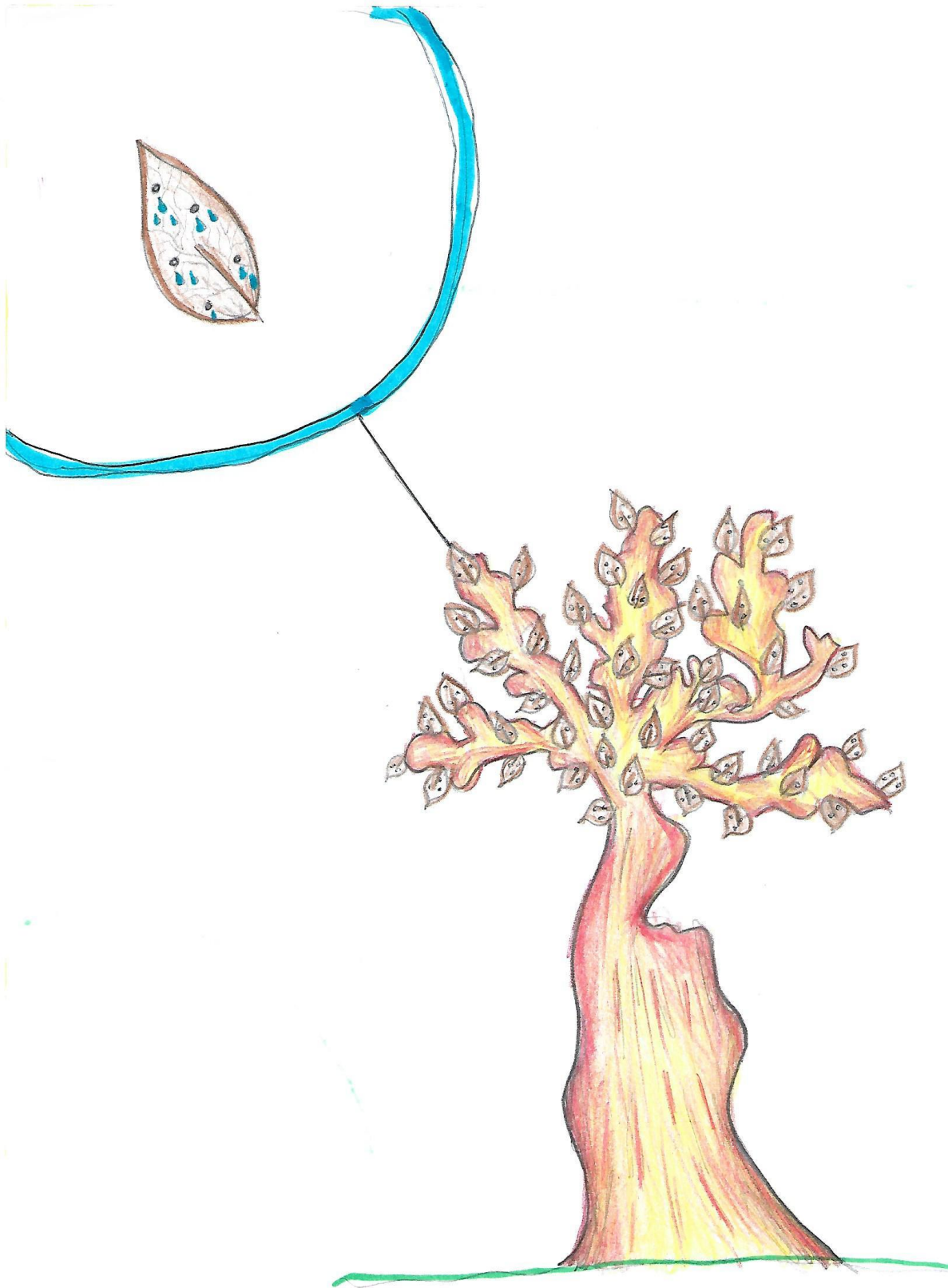
It changes the colour of the bark depending on the season of the year and its leaves are tiny and always brown.

WHY IT IS IMPORTANT TO PEOPLE

The inconspicuous leaves of this tree produce special blue liquid which when drunk by people can make them happy and cheerful but at the same time people think more reasonably and responsibly. This liquid is not addictive.

NAME OF THE DISCOVERER: Martyna Żak

LUCKYTREE



NAME: *Caner*

TYPE: flower

HABITAT: deciduous forests, close to deciduous trees

SPECIAL FEATURES

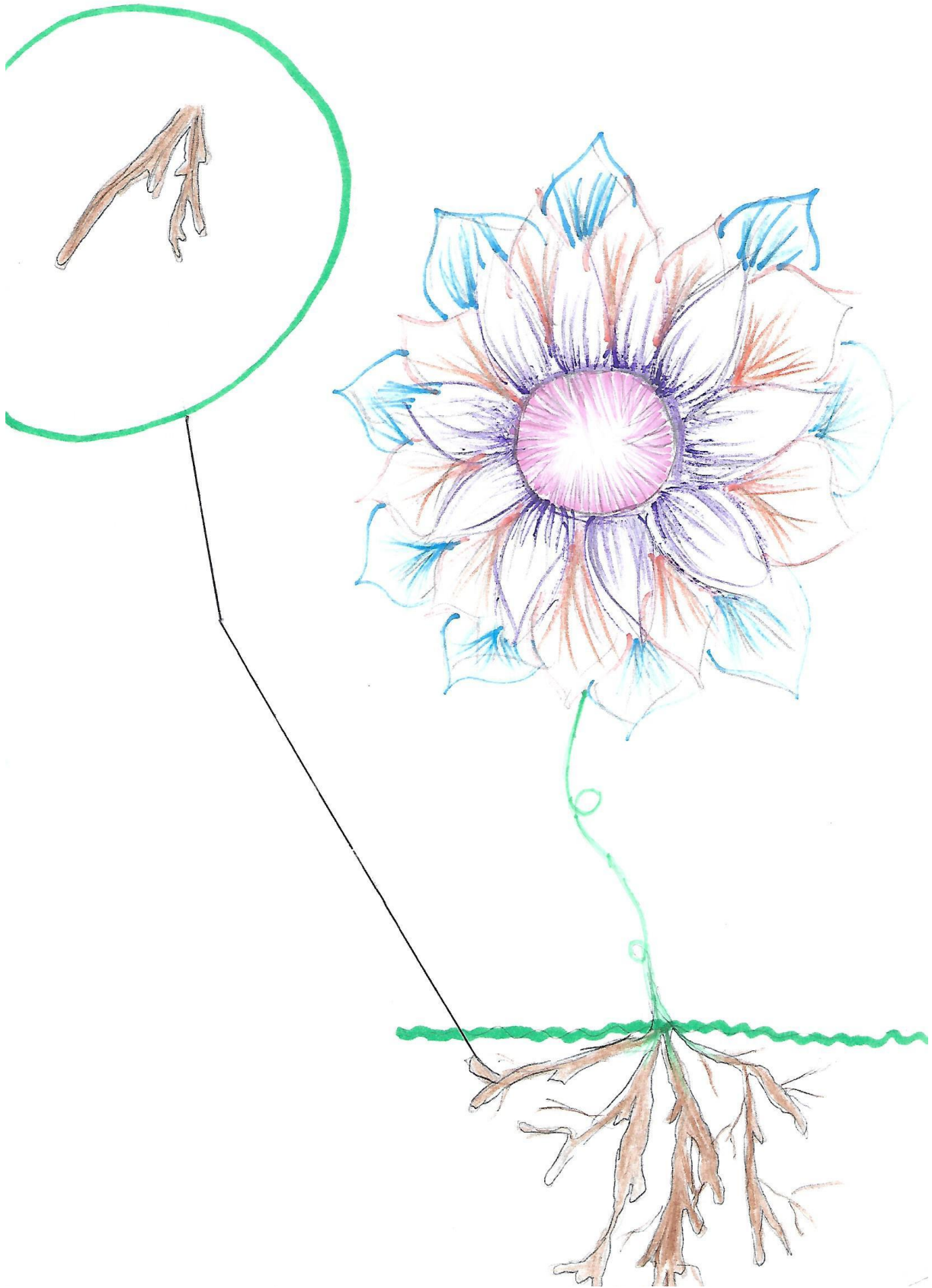
It can grow really fast and its roots can reach up to 2 meters in length. The roots are made in 89% from cane sugar.

WHY IT IS IMPORTANT TO PEOPLE

It is easily available and we can produce a lot of sugar from it. What is important is that the sugar produced from *Caner* is much healthier than the kinds of sugar we know now. The production of sugar from this flower is also less expensive than the production of white sugar and it also takes less time.

NAME OF THE DISCOVERER: *Martyna Żak*

CANER



NAME: Lighttree

TYPE: tree

HABITAT: Amazon Jungle

SPECIAL FEATURES

The tree can be seen only at night.

WHY IT IS IMPORTANT TO PEOPLE

This tree accumulates electric power in its leaves and at night it shines. We are able to collect the leaves and keep them for one month away from the tree while they still shine. One such tree can illuminate one large town. Owing to this property of the tree our electricity bills will be lower. And the electricity obtained from this tree is ecological.

NAME OF THE DISCOVERER: Martyna Żak

LIGHTTREE

