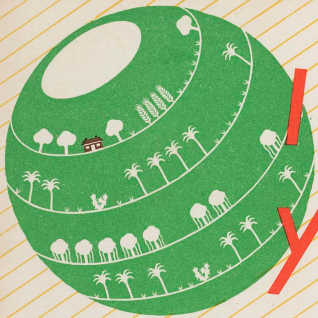


I
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I'll show
you



how it happens



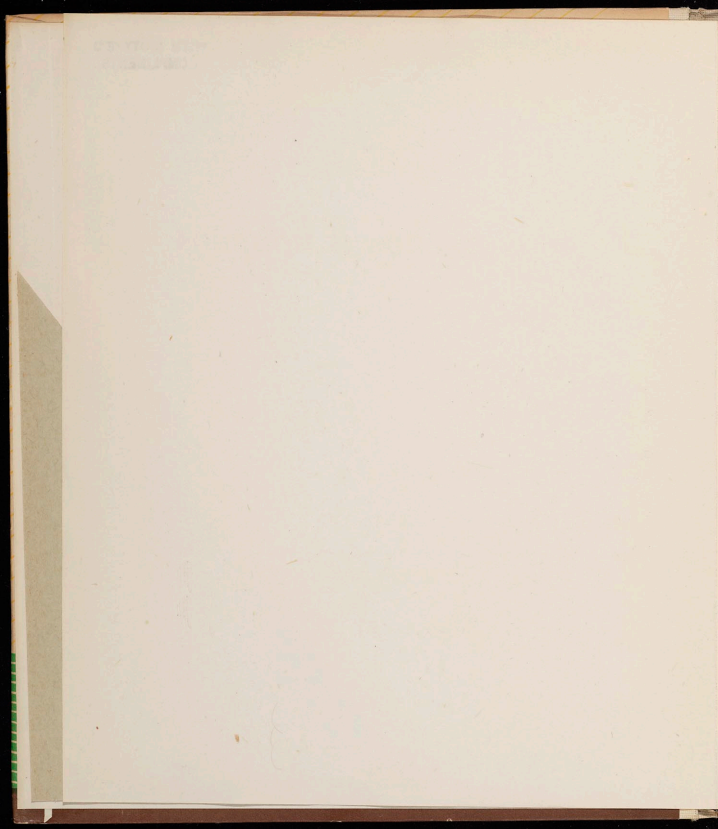
A PARRISH COLOUR BOOK FOR YOUNG CHILDREN

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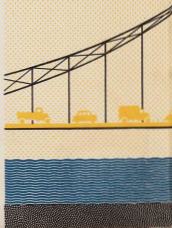
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by Marie Neurath

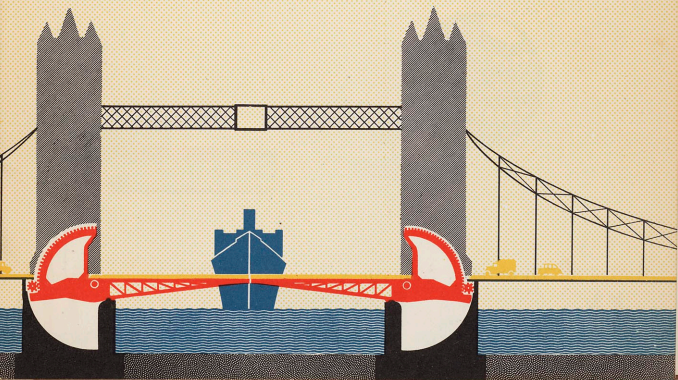


DISTRIBUTED BY MAX PARRISH & CO LTD LONDON

PUBLISHED BY ADPRINT LIMITED LONDON COPYRIGHT 1948
PRINTED IN GREAT BRITAIN BY JARROLD & SONS LTD NORWICH ENGLAND



*show you
how it happens*





List of

Tower Bridge makes way for a tall ship 6

Seeds that fly to new ground on wings and parachutes 8

The wonderful birth of the dragonfly 10

Shadows that fall on the earth 12

The water that springs from the earth 14

The long, slow birth of the coal we burn 16

The warm house where the flowers live 18



Contents

The turning earth makes day and night 20

How a boat can go uphill 22

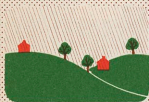
First the flower then the fruit 24

How a burning candle can lift a balloon 26

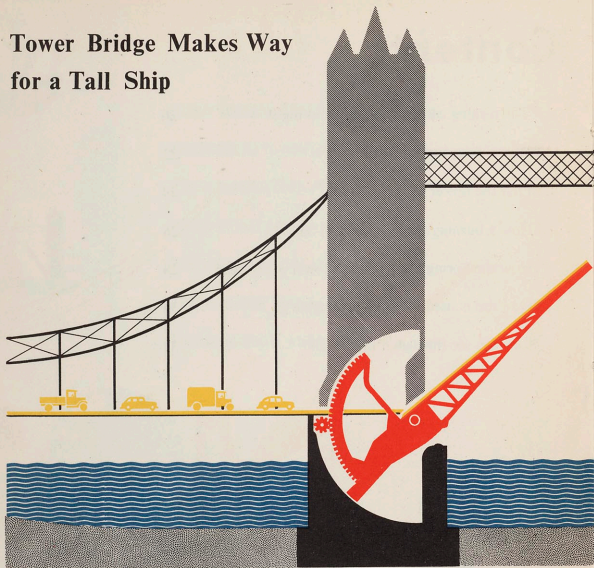
How the Spring brings a new flower every year 28

How fire is used to make the engine go 30

Can you see through a brick wall ? 32



Tower Bridge Makes Way for a Tall Ship

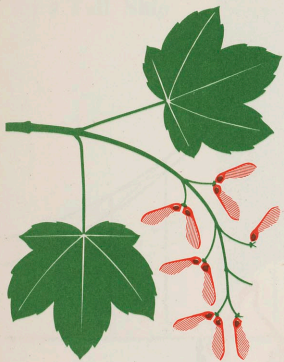


When a tall ship wants to pass under London's famous Tower Bridge, to make way for it. Each arm works like a lever, balanced by a heavy In three minutes the ship has passed by and the arms are lowered



the bridge is cleared of traffic and the road lifts up in two mighty arms weight at one end, and both are set moving by engines inside the towers. again. The waiting traffic once more begins to stream across the bridge,

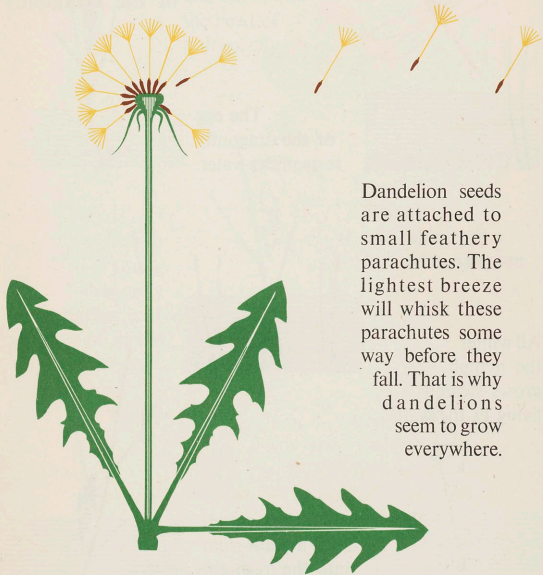
Seeds that Fly to New Ground on Wings . . .



In late summer you will see numbers of brown wings hanging from the boughs of the sycamore tree. At the end of each wing is a seed. When a gust of wind comes, the wings carry the seeds away to the open ground.

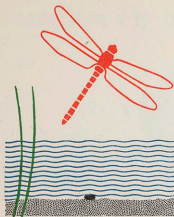


and Parachutes



Dandelion seeds are attached to small feathery parachutes. The lightest breeze will whisk these parachutes some way before they fall. That is why dandelions seem to grow everywhere.

The Wonderful Birth of the Dragonfly



The egg
of the dragonfly
rests under water.

In time
a tiny spider-like
nymph hatches out.



All winter
the nymph
grows steadily,
living in the water.

When the summer comes
it climbs a plant-stem
into the fresh air.





Soon its skin splits,
and out comes
the head of
a dragonfly.

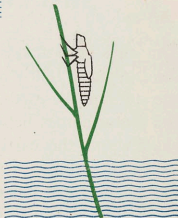
The
young
dragonfly
wiggles itself
free of its old
winter coat,



pauses
to stretch
its lovely
wings,



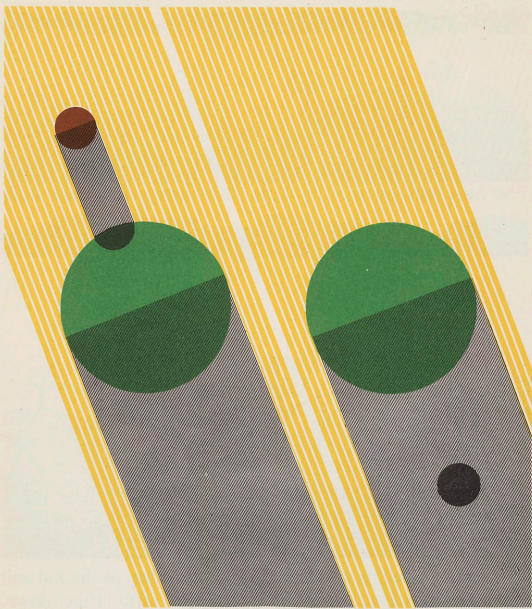
and flies up
into the summer sunshine.





SHADOWS THAT FALL ON THE EARTH

The sun's light travels in straight lines, and cannot pass through solid objects. If a tree, or a balloon, or a cloud comes between the sun and the earth, a dark shadow falls on the ground. When the moon comes between the sun and the earth, it casts a huge shadow on the earth and hides the sun for a time. This is called an eclipse of the sun. When we see an eclipse of the moon, the *earth* has come between the sun and the moon. Its shadow has fallen on the moon and darkened it.





The rain falls on the dry hills. The spring does not flow.

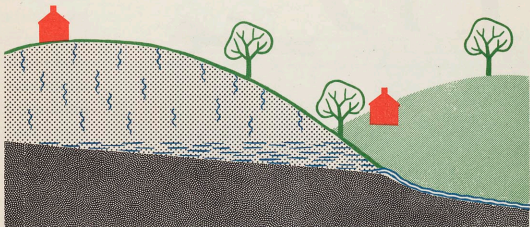


The water is soaking into the soft soil at the top of the hill and has begun to collect above the layer of hard earth further down.

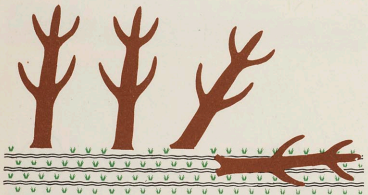
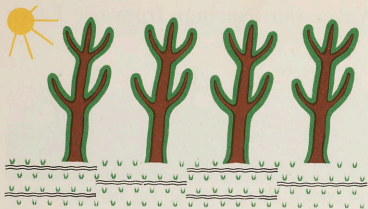
The Water that Springs from the Earth



Now the clouds have passed by, but the spring begins to flow.



The water has collected inside the hill until there is more than the soil can hold. The rest finds a way out through the spring.



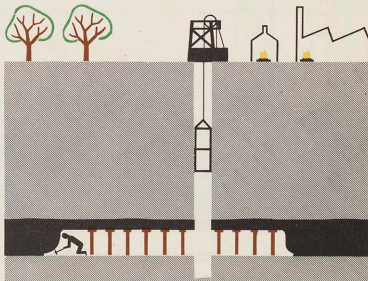
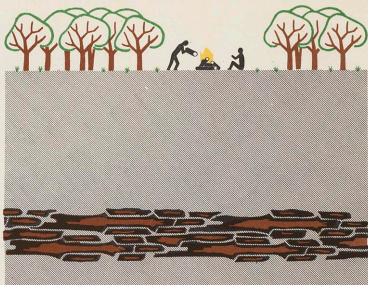
THE LONG, SILENT

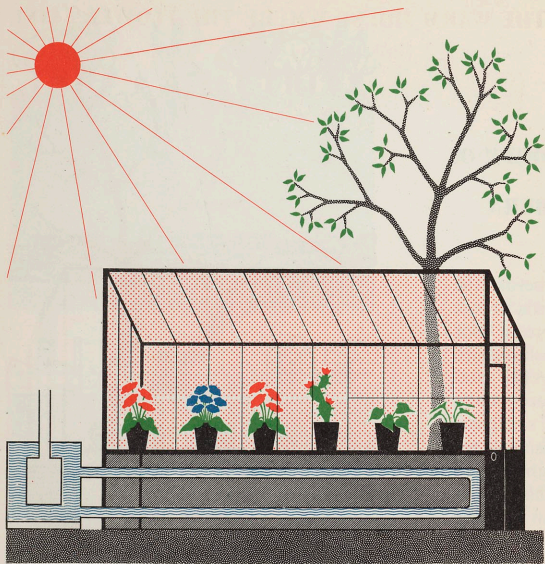
THE COAL

Millions of years ago, the first men lived on the earth. Trees grew in swamps. One by one they died and fell into the soft wet mud and water of age. Layer upon layer they lay, making them deeper and deeper. At last the earth turned them into a solid rock. But the trees that had lived in the ancient forests had long since died. When men learned to dig deep into the earth, they found a dark rock called coal.

LOW BIRTH OF WE BURN

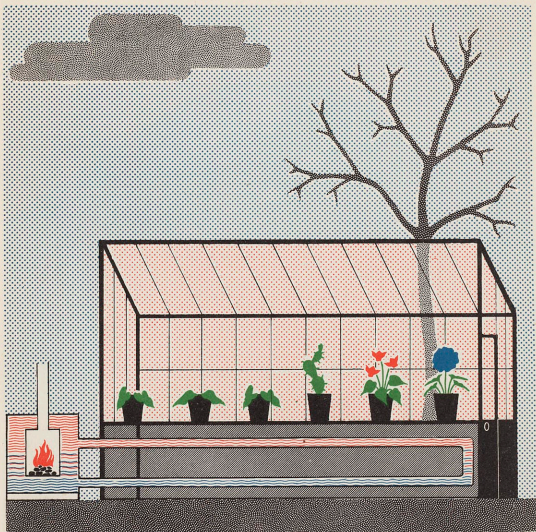
... ago, before the
... the earth, strange
... mpy forests. One
... and crashed down
... t earth. The mud
... es covered them
... ayer of soil, bury-
... and crushing them
... e weight of soil
... a hard black rock.
... at grew in those
... e not been lost.
... ed that the black
... would burn, they
... e earth to find it.





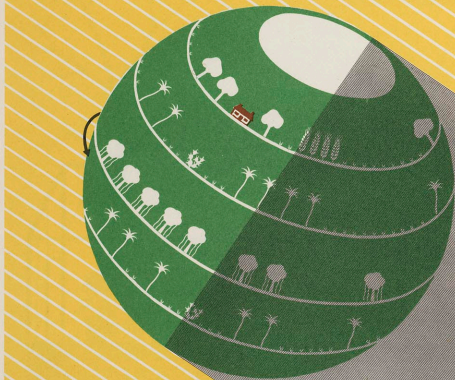
In spring and summer the greenhouse traps the warmth from the sun and becomes hot. We can grow tropical plants inside it.

THE WARM HOUSE WHERE THE FLOWERS LIVE



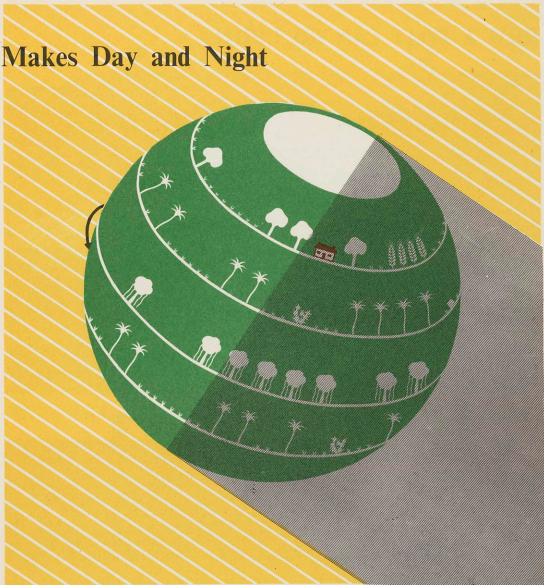
In winter we heat the greenhouse by a fire and hot-water pipes. Flowers will bloom inside which the frost outside would kill.

The Turning Earth . . .



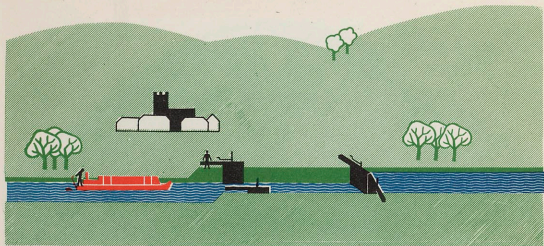
The little house stands in the sun's rays: it is daylight there.

Makes Day and Night

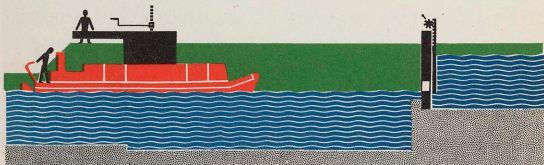


The earth turns. The house enters the shadow, and it is dark.

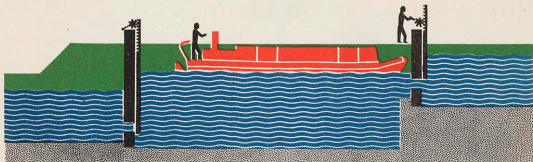
HOW A BOAT CAN GO UPHILL



When a canal must pass through hilly country it is built in steps. Locks are made to help boats to climb from one step to another.



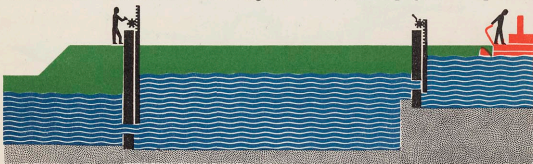
As the boat comes near, the lock-keeper swings the lower gate open. The boat enters the lock and the gate closes behind it.



Water is allowed to flow in under the top gate. The boat rises.



When the boat reaches the higher level, the top gate is opened.



The top gate is closed and the water is allowed to fall again.

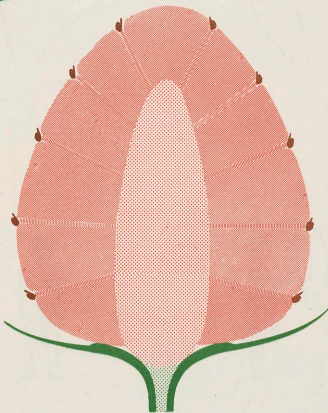


In spring the strawberry plant opens its flowers.

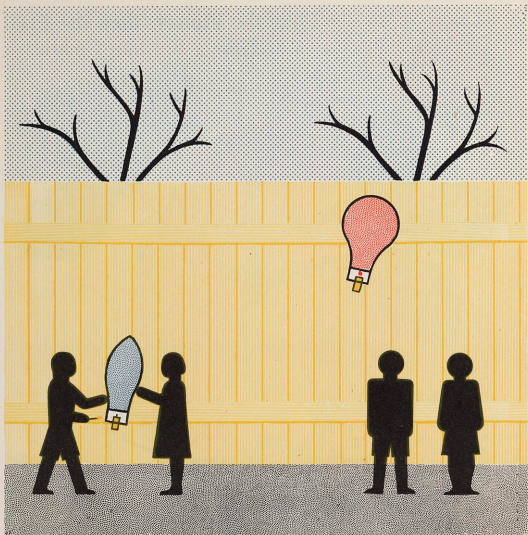


The green centre of each flower swells.

First the Flower, then the Fruit

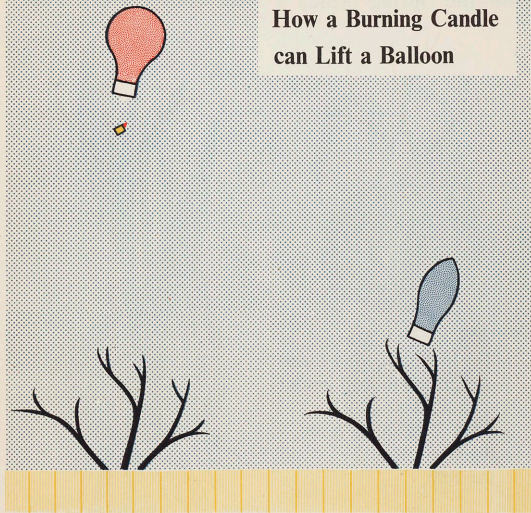


By early summer it has turned red and ripened into a strawberry.



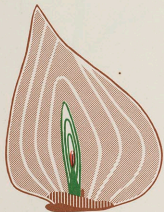
At the bottom of this paper balloon is a hole, and under it is a candle, held in place by a wire. When the boy lights the candle the balloon quickly swells, and soon it rises high into the air.

How a Burning Candle can Lift a Balloon



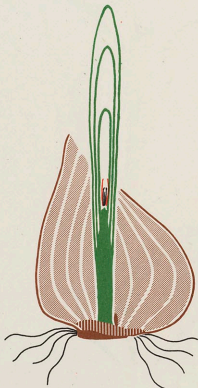
The air inside it has expanded through the heat and is lighter than the air outside. When the candle burns past the wire and drops away, the air inside cools. The balloon folds up and falls to earth.

How the Spring brings a New Flower every Year



December

The tiny flower and leaves are already formed inside the tulip-bulb. Their food comes from the layers of the bulb.



March

Roots have grown, to bring food and water from the soil. Green leaves appear above the ground.

May

The
flower
opens.

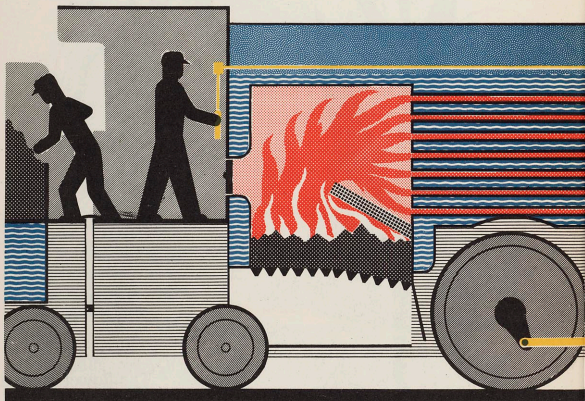


July

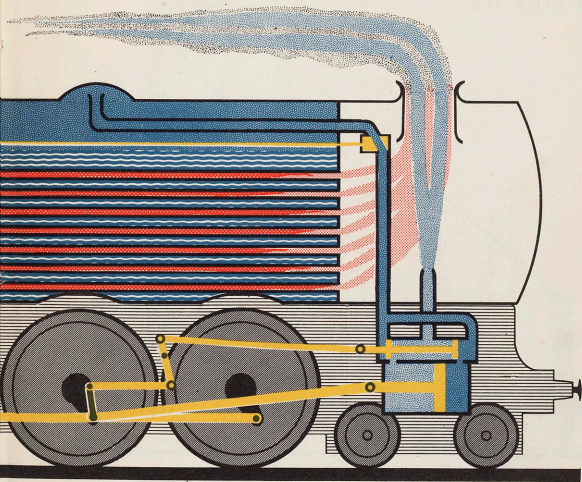
The flower is dead
and the leaves fade.
Inside the shrivelled skin
of the old bulb,
a new one forms.



HOW FIRE IS USED TO MAKE THE ENGINE GO

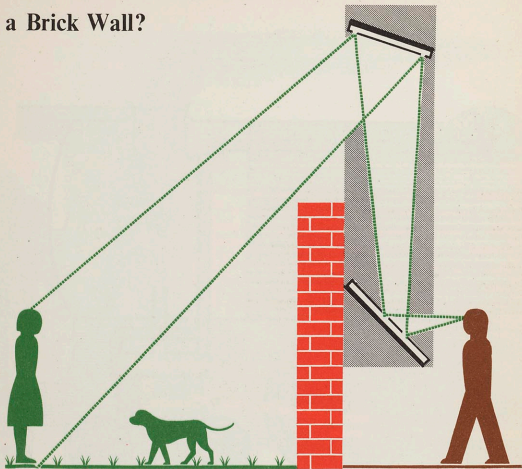


From the engine's roaring furnace hot air passes through the pipes against the top. When the driver pulls the lever the steam rushes down wheels; the small one lets new steam in and pushes the old steam out.

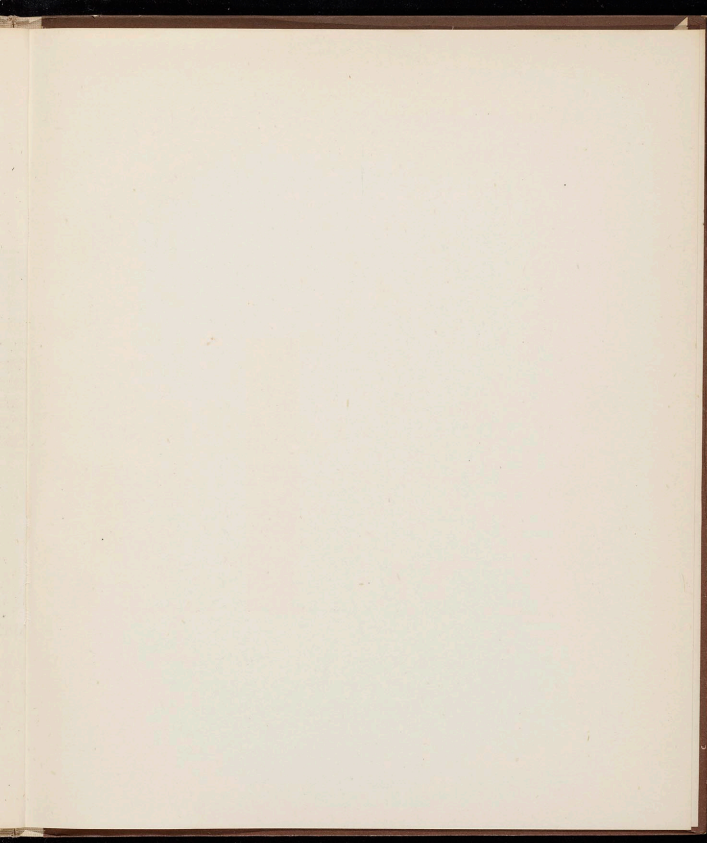


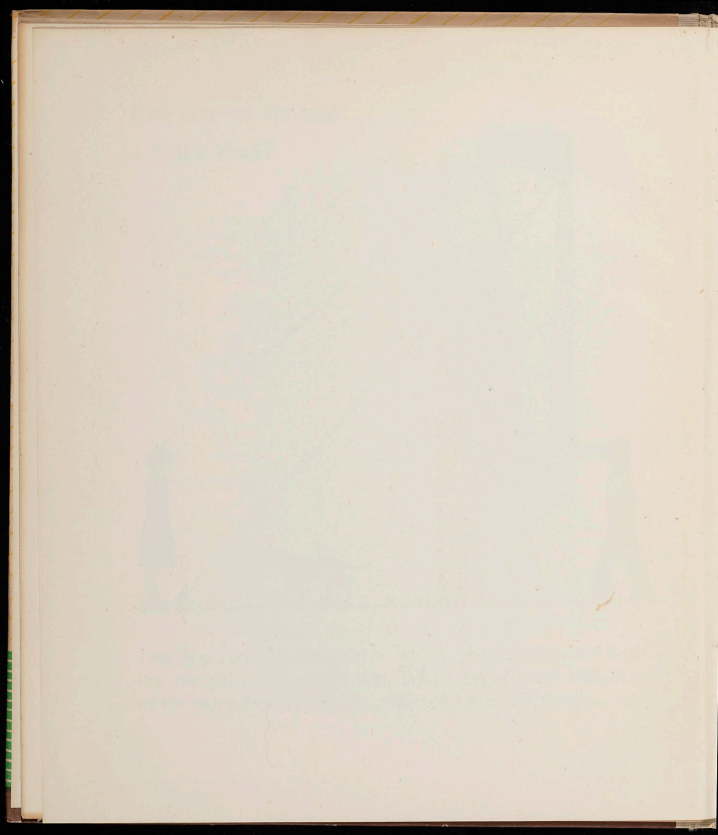
inside the boiler. The water boils fiercely and the steam pushes hard the pipe and thrusts against the pistons. The large piston turns the Used steam puffs from the funnel, mixed with smoke from the fire.

Can You see through a Brick Wall?

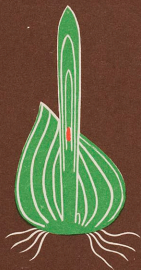


This boy can. In the mirror which rests against the wall he sees the girl on the other side. Why? Because the rays of light which carry her picture are reflected by another mirror above.





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