

**Epistle of Petrus Peregrinus of Maricourt : to Sygerus of Foncaucourt/
soldier/ concerning the magnet.**

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Thompson, Silvanus P. 1851-1916.

Publication/Creation

[Chiswick (London)] : [Chiswick Press], [1902]

Persistent URL

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PEREGRINUS

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AA2

Rubricated by the translator's daughter,
Helen G. Thompson (see colophon)

PETER PEREGRINUS



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Epistle of Peter Peregrinus of Maricourt/
to Sygerus of Jfontaucourt/ Soldier/ con-
cerning the Magnet.

Office of the Secretary of the
Department of the Interior
Washington, D. C.

Beginneth the Treatise of the Magnet.
Chapter i. Of the scope of the Work.

A

fter being solicited by
you/inmost of friends/ I
Will disclose in rude nar-
ration a certain occult na-
ture of the lodestone. For
indeed nothing has been
pleasurable to Philo-
sophers apart from the
sharing of the knowledge
of it/because the nature of good things Wanders
and is obscured in darkness until it is brought
up into the beams of public dedication. ¶ This
treatise is of the magnet and contains two parts
of Which the first is in ten chapters. ¶ The second
part is comprised in three chapters. ¶ The first
chapter of the first part is on the scope of the Work.
¶ The second chapter/ What an investigator in this
subject ought to be. ¶ The third chapter on the re-
cognizing of the stone. ¶ The fourth chapter on the
science of finding the parts of the stone. ¶ The
fifth chapter on the finding of the poles in the
stone/ Which of them is the North and Which is
the South. ¶ The sixth chapter how one magnet
a ij attracts

attracts another magnet. ¶ The seventh chapter how iron drawn by a magnet turns towards the poles of the World. ¶ The eighth chapter how a magnet draws iron. ¶ The ninth chapter how the Northern part attracts the Southern/ and conversely. ¶ The tenth chapter on the inquiry whence a magnet receives the essential Virtue/ Which it possesses. ¶ Of the second part the first chapter is on the construction of an instrument by Which is known the Azimuth of the Sun and of the Moon and of any star on the horizon. ¶ The second chapter on the construction of another better instrument for the same purpose. ¶ The third chapter about the theory of the construction of a Wheel of perpetual motion.

FOr loke of you therefore I Will Write down in plain language things Which to the bulk of students are utterly unknown. Nevertheless We shall not communicate in this epistle any information save about the manifest properties of the stone/ on the ground that this teaching Will form part of a Tract/ in Which We shall show how to construct physical instruments. To treat of the occult properties of this stone leads us to the art of engraving stones. And although I may call those actions

actions manifest/ concerning Which you haue in-
quired/ yet they Will be of no esteem/ and in the
eyes of the Vulgar as illusions and phantasms.
And therefore because they are secrets to the com-
mon people/ but Will be manifest to Astrologers
and Naturalists/ they Will also be a solace to
them/ just as they Will likewise be of no slight
assistance to travellers Who haue gone far a Way.

Chapter ij. What an investigator in this subject
ought to be.

Bot know/ dearest friend/ that the inves-
tigator in this subject must understand
nature/ nor must he be ignorant of the
celestial motions: but he must himself
be very diligent in handicraft also/ in order that
through the operation of this stone he may shew
Wonderful effects. ¶ For by his carefulness he
Will be able in a short time to correct an error
Which in an age he could not possibly do by
means of his knowledge of nature and mathe-
matics/ if he lacked carefulness in use of hands.
For in occult operations We search out much by
manual industry: and for the most part Without
it We can make nothing perfect or complete. ¶ For
there

there are many things subject to the empire of reason/ Which things We cannot completely investigate by the hand. From these therefore it is clear What the qualifications of an investigator of this subject ought to be.

Chapter iij. Of the recognizing of the Stone.

NOW this stone is to be recognized by four distinguishing characteristics/ namely/ colour/ homogeneity/ Weight/ and Virtue. It should then be of an iron colour and livid/ mingled With indigo or sky-blue/ so that it is like unto polished iron tarnished by foul air: for such a stone I have never seen Without great power. And such stone is found as a rule in Northern parts/ and is reported by sailors in all the ports of the Northern seas/ as for example in Normandy/ Picardy/ and Flanders. **P** This stone should also be homogenic in substance/ since that Which has rusty spots/ and small holes/ is not choice: and a magnet is scarce found Without such defects. **P** Such a stone also/ on account of its homogeneity/ and the good compacting of its subtile parts/ is rendered heavier/ and is deemed Weightier in price. **P** But its Virtue is discerned through

through the strong attraction of iron/ and of a great Weight/ of the manner of Which attraction I Will speak lower down. If therefore you shall find a stone With these marks/ get hold of it if you can. It therefore appears by What marks the recognizing of this stone is elicited.

Chapter ix. Of the Science of finding the parts of the stone.

SO you must know that this stone bears in itself the similitude of the heavens/ the method of probing Which I Will explain clearly how to find/ lower down. And on this wise: that there are two points in the heavens more noteworthy than the rest/ because the celestial sphere turns about them as upon axes: One of these is named the Arctic or North pole/ Whilst the remaining one is named the Antarctic or Southern. So in this stone you should thoroughly comprehend there are two points of Which one is called the North, the remaining one the South. **To the general discovery of these two points you may attain by manifold industry: And one way is/ To have this stone rounded With a tool With Which crystals**

stals and other stones are rounded. Afterwards let a Needle/ or a Bar of iron/ slender after the fashion of a needle/ be placed over the stone/ and along the length of the iron let a line be marked out dividing the stone along the middle: Afterwards let the needle or the iron be placed in another position over the stone/ and mark the stone With a line again in the same Way according to that position: And if you Wish/ you shall do this in several places or positions/ and Without doubt all the lines of this kind Will meet in two points/ just as all the meridian circles of the World meet in the two opposite poles of the World. Know you then that one is the North/ the other the South: the proof of Which you Will see in the following Chapter. ¶ But there is another better method of discovery of those points: that you may observe the place on a rounded stone/ as has been said/ Where the end of the needle or of the iron adheres more frequently or more strongly: for this place Will be one of the points found by the method already described. ¶ In order therefore that you may have one point on the stone exactly/ break off a little piece from the needle or the iron/ Which shall be in the shape of a bar of about the thickness of two fingers/ and place it on the spot
Where

Where the point has been already discovered by the said method/ and if it stand upright on the stone/ Without doubt the point sought for is there. If not/ move it until it does stand upright. Which being done/ mark the point there/ and in a similar manner on the opposite side of the stone/ you Will find the opposite point. And if you have done this correctly/ and the stone is homogenic and choise/ the points Will be directly opposite/ as the Poles on a sphere.

Chapter B. Of the science of Finding the Poles in the stone: Which of them is the North/ and Which the South.

Having observed the art of finding the Poles of this stone in general/ you Will ascertain Which of them is the North and Which the South by means of the following method: Take a round Wooden Vessel/ in the shape of a cup or dish/ and in it place the stone/ in such a Way namely that the two points of the stone are equidistant from the edge of the Vessel: then place that Vessel/ With the stone placed Within it/ in another Vessel/ a large one/ filled With Water/ so that the stone may be in the
B i first

first Vessel like a sailor in a ship. But let the first Vessel be in the second Vessel With plenty of room/ like a ship floating in a river. And/ I say/ With plenty of room/ in order that the natural motion of the stone may not be impeded by its contact With the edge of the large Vessel. For this stone/ so placed/ Will turn its small Vessel/ until the North pole stands in the direction of the Northern point of the sky/ and the South pole in the direction of the Southern point. And if this stone be moved aside a thousand times/ a thousand times Will it return to its place or position by direction of God. And When the Northern and Southern parts are known in the heavens/ those in the stone Will be known also by means of them: because each part of the stone Will be in the direction of its own part of the heavens.

Chapter Vi. How Magnet drawes Magnet.

The discovery then having been made Which is the North and Which the South Pole in the stone/ mark the Poles With incisions/ so that you may be able to distinguish them as often as you need. And if afterwards you Wish to see how stone attracts

attracts stone: Get ready in the following manner
two stones/ prepared as has been said. Place one in
its vessel/ so that it may float/ like a sailor in his
ship/ and let the points already found be equi-
distant from the Horizon/ or from the edge of the
vessel/ Which is the same thing: But hold the other
stone in your hand. And bring the Northern part
of the stone Which you are holding near to the
Southern part of the stone floating in the vessel:
for the floating stone Will then follow the stone
Which you are holding/ as if wishing to adhere to
it: And if/ conversely/ you present the Southern
part of the stone/ Which you hold/ toward the
Northern part of the floating stone/ the same thing
Will happen: namely/ the floating stone follows the
stone Which you are holding. Know you then as the
rule/ that the Northern part in a stone attracts the
Southern part in another stone/ and the Southern
the Northern. But if you do the opposite/ namely/
bring the Northern part near the Northern/ the
stone Which you are carrying in your hand Will
seem to repel the floating stone/ and if you apply
the Southern part to the Southern/ the same
Will happen: and in fact for this reason/ that the
Northern part seeks the Southern: Wherefore it
Will seem to repel the Northern: of Which there
is

is a token in the fact that the Northern part Will in the end join itself to the Southern. **B**ut conversely a corresponding result takes place in respect to the other part/ the Southern: because if it is held out towards the Southern part of the stone that is floating/ you Will see it repel it immediately. The same occurs/ as has been said/ in the case of the Northern part presented to the Northern. **A**nd it is to be known that thus North seeks South/ and so South seeks North. And by this is overthrowen the folly of certain/ Who say that if Scammony attract jaundice by reason of similitude/ then Will a magnet attract a magnet more than iron: Which they suppose false When it is true/ as appears by experiment.

Chapter vij. How Iron touched With a Magnet turns to the Poles of the Earth.

AS is known to all Who have tried it/ When an oblong piece of iron has touched a magnet/ and has been fastened to a light piece of Wood or a straw/ and is put on Water/ one part Will move toward the star called the Nautical star/ for the reason that it is near the pole. For the truth is that it does not

not move toward the said star/ but toward the pole/ the proof of Which We Will affirm in its own Chapter: but the other part Will move toward the other part of the heavens. But as to Which part of the iron moves toward Which part of the heavens/ you must know that the part of the iron Which shall have touched the South of the stone/ Will turn toward the North of the heavens. And the converse Will be the case concerning the part of the iron Which the North part of the stone shall have touched/ for indeed it Will turn round to the South: And it is a Wonderful thing for one Who does not understand the cause of the motion of the iron: but experience of this has proved that We have spoken the truth.

Chapter Biij. How a Magnet attracts Iron.

Should you hold that it is in accordance With a natural appetite of the stone that it attracts iron floating or swimming on Water/ observe the Northern part of the iron/ and bring near to it the Southern part of the stone/ for it Will follow it. Or/ on the contrary/ to the Southern part of the iron hold out the Northern part of the stone/ for it Will attract

tract it Without veniency. But if you should do the opposite/ namely/ hold out to the Northern part of the iron the North of the stone/ it Will be seen to repel the iron/ until the Southern part is adjoined to the same iron: and similarly you Would perceive the same thing in regard to the other part. **P** But if Violence be done to the parts/ namely/ if the Southern part of the iron/ Which has been touched With the Northern part of the stone/ Which is also called the Southern in the iron/ be joined to the Southern part of the stone/ the Virtue in the iron Will be easily altered in it/ and that Will become the South Which Was the North/ and conversely. And the cause of this is/ the impression of that Which acted last/ confounding and altering the Virtue of the first.

Chapter ix. Why the Northern part attracts the Southern/ and conversely.

But the Northern part of the stone attracts the Southern/ and conversely/ as has been said/ and in its attraction/ the stone of stronger Virtue is active/ Whilst that of the Weaker is passive. But the cause of this thing I now think is indicated in this Way:
The

The agent strives not only to join its patient to itself/ but also to unite: so that out of agent and patient/ there may/ according to nature/ be made one. And this may be shown in the case of this Wonderful stone in this Wise: Take one stone/ Which you may represent by AD / in Which A is the North/ Whilst D is the South point. And divide it into two parts/ so that two stones are made out of it: Afterward put the stone/ Which contains A / on Water/ that it may float/ and you Will see that A Will turn toward the North as before. For the breaking does not take away the properties of the parts of the stone/ When the stone is homogenic. And so that part of this stone just at the break/ Which is B / must needs be the South. Let this stone therefore/ concerning Which We have been speaking just now/ be represented by AB : concerning the other/ that Which contains D / if it be put to float on the Water/ you Will see that D Will be the South as before/ because it Will turn to the South if put on the Water. But the other part/ Which may be called E / in the region of the break/ Will be the Northern part. This stone then Will be ED . Let the first stone AB be the agent/ and let ED be the patient: and so you see that the two parts of the two stones/ Which before





before the separation Were continuous in one stone/
 are found after the separation the one to be a
 Northern part/ the other a Southern. But if
 the same parts be brought near one another again/
 the one attracts the other/ until they are joined
 together in the point **BC** Where the break had
 been: Whilst as far as the natural appetite is con-
 cerned/ they Will make one body as at first/ a
 sign of Which is that/ if they are cemented there/
 they Will exercise the same operations as at first.
P Therefore the agent/ as you see by the experi-
 ment/ strives to unite its patient to itself/ but this
 is done by reason of the similitude between them.
 Therefore/ When **B** is joined to **C**/ by the virtue
 of attraction there must be one line made of the
 agent and the patient/ according to this manner
ABCD/ so that **BC** becomes one point. For
 in this union there is retained or preserved the
 identity of the extreme parts/ in the likeness in
 Which they Were at first: for **A** is the North in
 the united line/ just as it Was in the divided line.
 In the same manner **D**/ the Southern point/ as
 it Was in the divided passive portion/ so it is also
 in the same united: but **BC** is made one and the
 same. In the same manner it happens/ if **A** is
 joined to **D**/ that the two lines become one/ by
 virtue

virtue of the very union of the attraction/ according to this arrangement $EDAB$ / so that DA is one point: then the identity of the extreme parts Will remain/ just as at first before they Were united: for E is a North point: Whilst B is a South/ just as it Was before While they Were separated.

But if it Were done otherwise/ this identity or similitude of the parts Would not be preserved. For you see that if E be joined to A / Which is contrary to the truth We have discovered/ so that out of those two lines one line is made according to this order/ $BACD$ / since E is in the point D / Which Was the South before they Were united/ it is required in this whole line that B / the other end/ should be the Northern. So/ the former identity or likeness is dissipated. Or if you take B as the Southern/ as it Was before they Were united/ it is required that D / the other part/ should be the Northern/ though nevertheless it Was the Southern. And so here neither identity nor similitude is preserved. For that/ Which has now been converted out of two into one/ must be in the same species as the agent/ Which Would not be so/ if nature Were to choose that impossible arrangement. But the same incongruity Will occur if you join D With B / so that there is made one
c i line



line according to this arrangement/ **ABDE**/ as is plain to him Who considers. **P** For Nature tends toWards being/ or acts in the better Way in Which it can: It chooses first the first order of action or of method in Which the identity is better preserved than in the second. **P** It is clear therefore from these considerations/ Why the South attracts the North/ and conversely. But South never naturally attracts South/ nor North North.

Chapter v. Of the inquiry Whence the Magnet receives the natural Virtue Which it has.

Certain feeble investigators of Nature hower have supposed/ that the Virtue by Which the Magnet acts upon iron exists in the mineral districts/ in Which the Magnet is found/ Whence they say/ that though iron moves toWard the Poles of the World/ yet this Would not be so unless a mine of the stone existed in those parts. But they ignore that this said stone is found in diverse parts of the World/ from Which it should follow that it Would move toWard diverse parts of the World/ Which is false. And again they ignore that the part under the pole is uninhabitable/ because half the
year

year there is day/ and the other half night/ Where-
fore it is foolishness to suppose that the Magnet
can be brought to us from those parts. Moreover/
since the stone or iron turns as much to the
Southern part/ as to the Northern/ as is clear
from What has been said above/ We are right in
deeming that the Virtue in the poles of the stone
flows in not only from the Northern part/ but
also from the Southern part/ rather than from a
mineral district. An evident token of Which is/
that Whichever man has been/ he sees that the mo-
tion of this stone is to his eye according to the
position of the meridian circle. For all meridian
circles meet in the poles of the World/ Wherefore
it is manifest/ that it is from the poles of the
World that the poles of the magnet receive their
Virtue. And from this it is manifestly apparent/
that it does not move towards the nautical star/
since the meridian circles do not meet thereat/ but
in the poles. For the Nautical star is always
found outside the meridian circle of any region
Whatever/ except twice in one complete revolution
of the firmament. From these facts therefore it
is manifest/ that it is from the poles of the
heavens that the poles of the magnet receive their
Virtue. P But you may reckon that the remain-
c ij ing

ing parts of the stone receive their influence from the other parts of the heavens: so that in this Way We may suppose not only that the poles of the stone receive their influence and virtue from the poles of the World/ but that the Whole stone does so from the Whole heavens: Which I advise you to test in the following manner. Let a stone be rounded/ and the poles found in it/ and afterwards dispose the stone upon two sharp styles/ so that at each pole one style is gently fixed in its socket in the stone/ so that in fact the stone may move on them without difficulty. Which being done/ try whether the poles or parts of the stone are evenly balanced/ by turning it gently about the said poles: and this you shall do many times/ and at many different hours of the day with wise industry. That being done/ arrange the stone on the meridian circle/ on its pivots/ fixed lightly in the poles of the stone/ that it may move in the manner of Armillaries/ in such wise that the elevation or depression of its poles may be in accordance with the elevation and depression of the poles of the heavens in the region in which you are. Now if the stone then move according to the motion of the heavens/ rejoice that you have arrived at a secret marvel. But if not/ let it be ascribed

ascribed rather to your own Want of skill than to
a defect of Nature. But in this position/ or mode
of placing/ I deem the Virtues of this stone to
be properly conserued/ and I believe that in other
positions or parts of the sky its Virtue is dulled/
rather than preserued. By means of this In-
strument at all events you Will be relieved from
every kind of clock/ for by it you Will be able to
know the Ascendant at Whateuer hour you Wish/
and all the other dispositions of the heauens Which
Astrologers seek after.

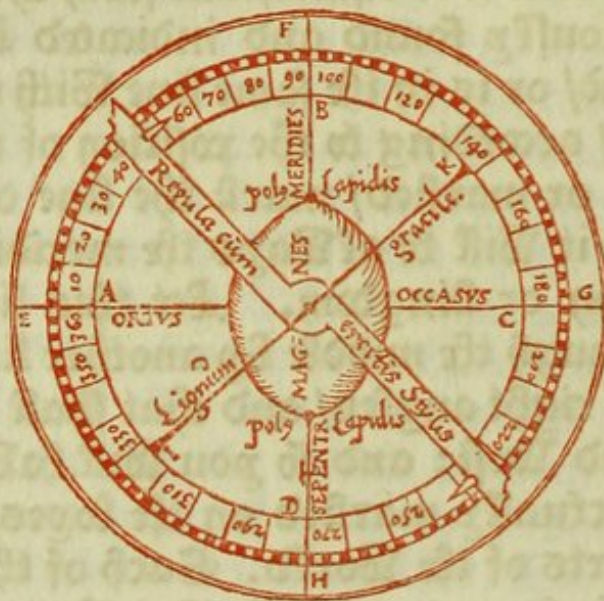
Beginneth

Beginneth the Second Part of this Treatise/ of
Which the First Chapter is of the Construction
of an instrument by Which is knowen the Azimuth
of the Sun/ and of the Moon/ and of any Star
on the Horizon.

The natural operations of the Magnet having been viewed/ let us pass on to the ingenious contrivances Which depend on a knowledge of its natural working. Let then a round magnet be taken and its poles found/ as has been described/ and let it be filed down between the two poles on the two sides/ so that the stone may be like a sphere compressed between the two poles/ in order that it may occupy a smaller space. Let this stone indeed thus prepared/ be shut up in the middle between two capsules in the manner of a mirror: And let the capsules be so joined to one another/ that they shall not be opened any more and that no Water can make its way in. Let the capsules be prepared With cement suitable for this purpose/ and let the capsules be of light Wood. This being done/ place the capsules thus fitted up in a large Vessel/ filled With Water/ in Which the two parts of the World/ namely/ the South and the North/ have been found

found and known or marked: and let them be indicated by means of a thread stretched from the Northern part of the Vessel to the Southern part. Then set the capsules to float/ and let there be a thin strip of Wood over them in the position of a diameter. Let this strip of Wood be moved over the boxes/ until it is equidistant from the meridian line/ previously found and indicated by means of the thread/ or is in the same line with it. Which being done/ according to the position of this Wood so situated or marked/ mark the line on the capsules: and it will be always the meridian line in every region or kingdom. ¶ Let this line then be divided through the middle by another line cutting the same at right angles/ and that shall be the line of East and West: and so you will have the four quarters actually marked on the boxes/ denoting the four parts of the World. Each of these should be divided into 90 parts/ so that there may be in all 360 parts in the whole circumference of the boxes. And engrave the parts upon it/ just as they are wont to be engraved on the back of an Astrolabe. There shall be moreover a narrow light bar over the capsules thus engraved/ like the rule at the back of an Astrolabe: In place where of the sights/ let two spikes be set upright on the
the

the ends of the rule. **D** If then you Wish to haue
 the Azimuth of the sun/ by day/ place the capsules
 in Water/ and permit them to move freely/ until
 they settle in their proper position. And hold them
 firmly so With one hand/ and With the other move
 the rule/ until the shadow of the spike falls along



its length/ and then the end of the rule on the
 side of the sun Will show the sun's Azimuth. If
 there is a Wind/ let the boxes be covered over
 With some vessel/ until they haue found their posi-
 tion. At night/ on the other hand/ you may do
 the same With the Moon and Stars by sight:
 for you shall move the rule/ until the tops of the
 spikes

spikes and the Moon or the Star are in the same line. For the end of the rule on the side of the Star or Moon Will indicate its Azimuth/ as formerly.

D Moreover by means of the Azimuth you Will ascertain fully the hours/ and the Ascendant/ and all the things Which are necessary/ according to the science of the Astrolabe. But the form of this instrument is shewn by the present figure.

Chapter ij. Construction of another better and more certain Instrument/ for the same purpose.

In this chapter We Will tell you the method of construction of another better and more certain Instrument. Let a Vessel be made of Wood/ or Brass/ or of any solid material/ and let it be formed or turned in the fashion of a box/ not very deep/ and let it be Wide enough. And let there be fitted over it a lid of transparent material/ such as glass or crystal. And if even the Whole Vessel is also of a transparent material/ it Will be the better. So let there be arranged in the middle of the Vessel itself a slender Axis of Brass/ or of silver/ fitting at its extremities to the two parts of the box/ namely the upper and the lower.

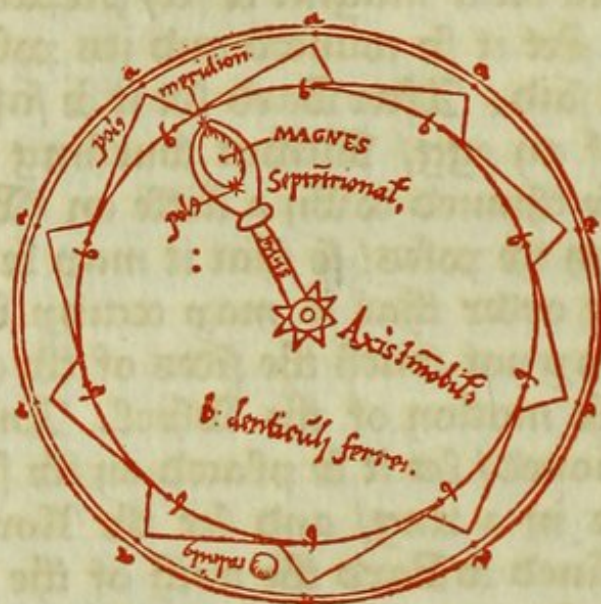
Chapter iij. Of the Construction of a certain
Wheel Which Will move continually and per-
petually.

In this chapter I Will reveal to you the
Way of constructing a continually moving
Wheel/ elaborated With marvellous inge-
nuity/ in the pursuit of Which invention
I have seen many people Wandering about/
and Wearied With manifold toil. For
they did not observe that they could arrive
at the mastery of this by means of the Vir-
tue/ or power of this stone. **P** For the con-
struction of this Wheel/ you shall prepare a silver
case/ like the case of a mirror/ hollowed out/ Worked
Within With skilful Workmanship/ With carvings
and perforations/ Which you shall make for the
mere sake of beauty/ and of lightening the Weight:
for the lighter it shall be the more swiftly Will it
move. You shall however make the perforations
so/ that the eye of the ignorant may not perceive in-
side the cases/ What is cunningly put therein.
But inside let there be small claws or teeth of
iron/ of one Weight/ fixed to the edge/ sloping/
near to one another/ so that they be not distant from
one another more than the breadth of a bean or the
thickness

thickness of a pea. But let the said Wheel be uniform in the Weight of its parts. And then fix an axis through its middle/ about Which the Wheel may revolve/ the axis remaining quite immovable. To this axis also let a small silver bar be added/ fixed to it/ situated between the two cases/ at the end of Which let a Magnet be set/ prepared in this manner. **P** Let it be rounded and its poles found/ as has been said. Afterward let it be fashioned in the shape of an egg/ Without touching the poles/ and let it be thinned down a little on two opposite sides between the poles/ so that it may be flattened in shape/ in order that it may occupy less room/ so that it may not touch the sides of the case on the inside/ in the motion of the Wheel. And having been so fashioned/ let it be placed on the small bar/ like a stone in a ring/ and let the North pole be a little inclined toward the teeth of the Wheel/ so that its Virtue may flow into the iron teeth not along a diameter/ but With some inclination: so that When any tooth shall have come to the North pole/ and shall have passed a little beyond the same in consequence of the impetus of the Wheel/ it may approach the Southern part/ Which Will repel rather than attract it/ as is clear from the rule propounded above. And so each tooth Will move
continually

continually in a perpetual state of attraction.

P And in order that the Wheel may fulfil its part the more [Wittly] shut up between the cases a little round head of brass or silver/ of such a size as may be contained between any two teeth: so that When the Wheel is raised/ the head Will fall



on the opposite side. Wherefore When the motion of the Wheel is continuous toward one side/ the fall of the head also Will likewise be continuous toward the opposite side/ being received between each pair of teeth of the Wheel perpetually: and seeking by its Weight the centre of the Wheel or of the Earth/ it Will prove an assistance/ and Will
not

not let the teth rest in a direct line With the stone.
But let the spaces between the teth be convenient-
ly recessed/ so that they may be able to hold the
head properly in the direction of its fall/ as the
present description shows. **P** Farewell.

Finished in camp/ at the siege of Lucera/ in the
year of our Lord 1269/ on the 8th day of August.
Endeth this Treatise.

This Epistle of Peter Peregrinus/ On the Mag-
net/ Written in 1269/ is done into English by
Silvanus P. Thompson from the printed Latin
versions of Gasser 1448/ Bertelli 1868/ and
Hellmann 1898/ and amended by reference to the
manuscript copy in his possession/ formerly amongst
the Phillips Manuscripts/ dated 1391: and it is
now printed in the year 1902/ in the Cayton type/
by Charles Whittingham and Company/ at the
Chiswick Press/ to the number of 240 copies/ of
which this is No.???. Rubricated by W.B.E.



