

An Account of the Extraordinary Medicinal Fluid, called Aether.

The Project Gutenberg EBook of An Account of the Extraordinary Medicinal

Fluid, called Aether, by Matthew Turner This eBook is for the use of anyone anywhere at no cost and with almost no restrictions whatsoever. You may copy it, give it away or re-use it under the terms of the Project Gutenberg License included with this eBook or online at www.gutenberg.net

Title: An Account of the Extraordinary Medicinal Fluid, called Aether.

Author: Matthew Turner

Release Date: June 5, 2004 [EBook #12522]

Language: English

Character set encoding: ASCII

*** START OF THIS PROJECT GUTENBERG EBOOK AETHER ***

Transcribed by David Ross <davidross@despammed.com> from an undated edition, c. 1761.

Project Gutenberg E-Text of An Account of the Extraordinary Medicinal Fluid, called Aether. By Matthew Turner (d. 1788?)

AN ACCOUNT OF THE EXTRAORDINARY MEDICINAL FLUID, CALLED AETHER.

By M. TURNER, SURGEON, IN _LIVERPOOL._

LONDON: Printed by J. WILKIE, at the Bible in St. Paul's Church-yard.

The Publisher of the following short Account of the AETHER having prepared, and successfully made Use of it in his private Practice, for several Years, has at length determin'd to endeavour to extend it's Utility, by thus making it public; as he knows of no one who has ever published it's _medicinal virtues_; or offered it to Sale in it's _Perfection_; or given the Criteria by which they who are unacquainted with it might distinguish the *Genuine* from the _Spurious_: And he doubts not but every candid Person who examines it, will agree with him, That it carries with it the strongest Marks of a valuable Addition to the _Materia Medica_, and therefore ought to lie no longer in Obscurity.

AN ACCOUNT OF THE AETHER, _&c._

This truly extraordinary Chemical Preparation is not a new Discovery, having been known and esteemed, as a valuable Curiosity, by many of the greatest Chemists and Philosophers, both Ancient and Modern; particularly by Sir *Isaac Newton* [Footnote: Quere 31st, at the End of his Optics.], and the Honourable Mr. *Boyle* [Footnote: Treatise on the Producibleness of Chemical Principles.], who both mention it in their Works, tho' not by this Name: And therefore before any Thing is said of it's Virtues as a Medicine, it may not be improper to explain the Nature of it, and enumerate a few of it's remarkable Properties, considered as a Curiosity in Chemistry, in which Light chiefly it has hitherto been view'd by those who have been acquainted

with it.

It is a kind of ETHEREAL OIL, produced by the Decomposition of the Vinous Spirit by Means of the Vitriolic Acid, and differs essentially both from Vinous Spirits and Essential Oils in several Respects, tho' it agrees with them in some, as will appear hereafter: But as the Vinous Spirit may be decomposed by means of all the three Mineral Acids, _viz._ the _Vitriolic_, the *Nitrous* and the _Marine_, and as these all act differently on the Spirit, they will, of Course, produce three different Kinds of AETHER, which, from the Name, of the Acid employ'd in making them, are term'd _Marine, Nitrous_, or _Vitriolic_: the last only is the Kind here understood, it's Properties being more singular and extraordinary, and, as an AETHER, more perfect than either of the others; the Reason of which seems to be, that the *Vitriolic Acid* is a much stronger Agent on the Spirit, and more perfectly decomposes it, than either the *Nitrous* or *Marine*.

It is the most light, most volatile, and most inflammable, of all known Liquids: It swims upon the highest rectified Spirit of Wine as Oil does upon Water, and flies away so quickly as hardly to wet a Hand it is dropped upon; from which Properties it probably has obtained it's Name. It is so readily inflammable, as to take Fire at the approach of a Candle, before the Flame touches it. Any Electrified Body will also produce the same Effect.

It is one of the most powerful Solvents known in Chemistry: It is neither *acid* nor _alkaline_, and therefore is perfectly free from that saline Acrimony with which all the common Volatile Spirits abound: It has a greater Affinity with Gold than *Aqua Regia* has, altho' it will not dissolve it in the Mass, or whilst in it's Metallic Form; but if you add AETHER to a solution of Gold in Aqua Regia, it presently takes all the Gold from it's former Solvent, keeping it perfectly dissolved and suspended, without the least Precipitation; and becomes of a yellow Colour: The AETHER, thus saturated with the Gold, does not mix with the Aqua Regia, but may readily be separated from it by simple Decantation, and thus a true and safe *Aurum potabile* is readily prepared for those who want such a Medicine. The Union of these two Substances is very remarkable, one being the heaviest solid Body we know, the other the lightest Liquid.

The AETHER is remarkably cold, when dropped upon the Hand, and it affects the thermometer in an extraordinary Manner; for if the Ball of either a Mercurial or Spirituous Thermometer be immersed in it, the Spirit or Mercury immediately sinks considerably, tho' both the AETHER and the Thermometer have stood a sufficient Time together to be brought to the temperature of the Room, before the Experiment was made. The Thermometers dipt into Water, or Spirit of Wine, in the same Manner, suffer not the least Alteration.

They who chuse to see a further Account of the singular Effects which this curious Fluid produces, may peruse what Doctor _Frobenius_, a *German* Chemist, has published concerning it, in the Philosophic Transactions for the Years 1733 and 1741.

But the most valuable Qualities of the AETHER are it's *medicinal* ones; it having been found by repeated Experience to be an excellent Remedy in most _nervous Diseases_; particularly in FITS of all sorts, whether _Epileptic, Convulsive, Hysteric, Hypochondriac, or Paralytic_: In habitual HEAD-ACHES, GOUT, RHEUMATISM, PAINS IN THE, STOMACH, WINDY DISORDERS OF THE STOMACH AND INTESTINES, HOOPING COUGH, ASTHMA, PLEURITIC PAINS, and DEAFNESS, all which Diseases have, in a singular Manner, been removed by it; and that the Publisher may contribute all the Assistance he can in extending the use of this Medicine, the following Methods of applying, it are given, which have been attended with Success.

Particular Directions for using the AETHER.

In the HEAD-ACH.

A fit of the Head-ach is almost instantly removed by applying the AETHER externally to the Forehead, by

means of a bit of Linen Rag, in the Manner hereafter directed for it's external Application. Or it may be applied to any other Part of the Head where the Pain lies, being first shaved, if necessary. If the Pain is violent, a Dose of it should be also taken inwardly. In stubborn Cases it will likewise be serviceable to snuff a little of the AETHER up the Nostrils, either alone or mixed with equal Parts of Lavender Water, *Hungary* Water, or Brandy; or it may be more convenient to apply a bit of Linen Rag, wetted with AETHER, up the Nostrils. Any of these Means, or all of them, must be repeated if the Pain is so urgent as to require it. To cure this Disorder radically, when it is of long standing, and to prevent it's Return, the Medicine must be taken inwardly for a considerable Time every Night at Bed-time, or in violent Cases, every Night and Morning in a small Draught of cold Water, according to the General Direction for taking it inwardly, given p. 11. In some particular Cases, Vomits are very serviceable.

A VERTIGO.

A Vertigo, Giddiness, or Swimming in the Head, will generally be removed by proceeding in the same Manner as for the Head-ach.

The EPILEPSY.

No Disease is more difficult to cure than the Epilepsy or Falling- Sickness; yet several Instances have occurred where the most violent Degrees of it, have been cured, even in grown Persons, by taking a Dose of this Medicine regularly every Night and Morning for a considerable Time. The Dose must be regulated according to the Age of the Patient, as mentioned in the General Direction, Page 11. If a Pain is felt in any Part of the Head, the AETHER must be applied to that Part occasionally, and it must be previously shaved, if necessary. It will be proper to give a small Dose of *_Tinctura Sacra_*, or of the *_Pill. Rufi_*, at proper Intervals, as once a Week or Fortnight. It will also, in most Cases, be necessary to give now and then a Vomit. If it be suspected that the Patient has Worms, proper Medicines to destroy them ought also to be given.

In CONVULSIONS.

In Convulsions, or Convulsive Disorders, give the AETHER inwardly, a Dose two three Times a Day, or oftener, according to the exigence of the Case; and it should also be applied externally to the Forehead, or any other Part of the Head, during the Fit. If the Patient is full of blood, bleeding is necessary, and if Costive, a Dose of *_Manna, Senna,_* or any gentle Laxative, or a Clyster, should be given.

Hysteric and Hypochondriac DISORDERS.

This Medicine has excellent Effect in *_Hysteric Fits_*, and in all that Train of Symptoms which Hysteric and Hypochondriac Persons are subject to; such as Risings in the Throat threatening Suffocation, difficult Breathing, Flutterings and Palpitations of the Heart, frequent Fainting, Lowness of Spirits, violent Pains in the Head, Languor of the whole Body, Dullness of the Mind and Senses, with constant Anxieties and Inquietude, &c. The Dose must be repeated according to the urgency of the Symptoms; and the Medicine must be continued some Time after the Complaints disappear, to prevent a Relapse. It will be serviceable during the Use of the AETHER, especially in Case of Costiveness, to take at proper Intervals a gentle Purge, such as *_Tinctura Sacra, Pill Rufi, Rhubarb,_* or *_Glauber's Salts_*. Bodily Exercise of all sorts contributes greatly to the Cure of these Complaints, especially Riding on Horseback.

PALSY.

In *_Palsies_*, and all Paralytic Complaints, the Patient, if a grown Person, must take the quantity of a Tea Spoonful of the AETHER every Night and Morning. The Dose must be lessened in young People, according to their Age. It will also be proper to snuff a little of it up the Nostrils once or twice a Day, or apply a bit of Rag wetted with it up the Nostrils. The AETHER must also be applied externally to the Part affected, at least

once every Day. It should likewise be applied now and then to the Forehead, or any other part of the Head, especially if the Tongue, Eyes, or any part of the Face or Head be affected. If the Arms or Hands are Paralytic, the Application should be made to the lower and back Part of the Neck, as well as to the Part affected. If the Disease has seiz'd the Thighs, Legs, or Feet, the Application must not only be made to them, but likewise to the Back Bone, at the Loins. As this Medicine cannot, on account of it's Volatility and Pungency, be properly applied to the Whole, of a Paralytic Limb at once, but only to a small Part of it, the Application therefore may be made sometimes to one Part, and sometimes to another, as shall be thought proper.

This Disease will require a longer or shorter Continuance of these Means, according to the Degree of it, and the Time it has continued. A Vomit should be given, and repeated now and then as the Patient can bear it; but if Vomits seem too fatiguing, a Dose of *Tinctura Sacra* may be given in their room. Paralytic Patients should use as much Bodily Exercise as possible, and the Head, Neck, and the whole Spine, as well as the Parts affected, should be frequently rubbed with a hot and dry Cloth till they appear red.

GOUT.

This Medicine is of singular Service in the *_Gout_*, not only while it continues in the Limbs, but particularly when it flies inwards, and attacks the Head, Stomach, or any of the internal Parts; in which Cases a few Doses will not fail to give present Relief. It should be taken in the Quantity of a Tea Spoonful, two or three Times every Day, or oftener, if the Case be violent, during the Gouty Fit. It carries off the Gouty Matter, by Urine, which it renders very thick and turbid. At any Time when there is a Necessity to abate the excessive Pain in the Part affected, the AETHER may be applied to it externally, according to the Method given p. 12. It will be proper to continue taking the AETHER once or twice a Day for some Time after the Fit is gone, and to begin taking it again about the Time of it's expected Return; by which Means, tho' it may not prevent the Return of the Fit, which in many Cases perhaps ought not to be desired, yet it will shorten, it's Continuance, and moderate the Pain of it.

RHEUMATISM.

In Rheumatic Complaints the Patient must take a Dose of this Medicine every Night and Morning, or oftener, if the Pains are violent; and it must be continued till the Disease is removed, or longer, to prevent a Relapse. If the Pain is fixed in any particular Part, the AETHER must be applied to it twice a Day, as directed hereafter. It must be observed, that Bleeding very much conduces to the Cure of obstinate Chronic Rheumatisms, must be repeated at proper intervals if necessary; the Blood in this Disease being generally very sily.

Disorders of the Stomach and Intestines.

This Medicine presently cures Flatulent Cholics, removes all Windy Disorders of the Stomach and Intestines, and corrects Acidities lodged there. It is also found to have excellent Effect in correcting that Weakness, or bad Habit of the Stomach and Intestines, which studious Persons, and such as lead sedentary Lives, are particularly subject to, and is attended with sour Belchings, Heart-Burn, Windy Distensions, Pain and Uneasiness in the Stomach and Bowels. It must be taken every Night and Morning, according to the General Direction below. Care should be taken to prevent Costiveness in these Cases, which, is best removed by chewing *_Rhubarb_*, or taking it any other way, or by a Dose of *_Manna_*, or *_Glauber's Salts_*, taken occasionally.

The AETHER is an extraordinary Diuretic in DROPSIES: It is an excellent Medicine in an ASTHMA, and the HICCUP; and may be looked upon as a Specific in that Disease of Children called the HOOPING- COUGH, or CHIN-COUGH; in all which Cases it must be taken inwardly, according to the General Direction below, and the repetition of the Dose must be regulated by the violence of the Disease.

A Dose of it taken at going to Bed after Drinking too freely, has been found to prevent the Head-Ach, Sickness, &c, which usually follow next Morning.

It has removed DEAFNESS, and Hardness of Hearing, by Moistening a little Cotton with a few Drops of it, putting it into the Ear, and holding the Finger for a few Minutes over it, at the same time snuffing a few Drops of it, mixed with Spirit of Lavender, up the Nostrils, or putting a bit of Rag wet with the AETHER, up the Nostrils.

It has frequently removed a temporary DIMNESS OF SIGHT, attended with a Swimming or Uneasiness in the Head, by external Application to the Forehead; and is a promising Medicine in that Sort of Blindness called a GUTTA SERENA, and in Beginning CATARACTS, in which Cases it should be taken inwardly, as well as applied to the Forehead, and up the Nostrils.

It is likewise found to, be of great service in removing PLEURITIC PAINS, and STITCHES in the Side, by applying it to the affected Part, in the Manner directed for external Application.

The Method of taking the AETHER Inwardly.

The General Dose for a grown Person is a common Tea Spoonful; and the best Vehicle to take it in is a Draught of Cold Water. If it be only stirred, in the Water with the Spoon, and the Mixture drank immediately it strikes the Nostrils by it's Volatility, but may be thought by some as agreeable when so taken as when the two Liquors, are more intimately mixed, by shaking them in a Phial, and from thence pouring them into a Glass to be drank; for tho' it has but little Smell in this Manner, it is more warm to the Palate than in the other. The Patient may use, the Way of Mixing he likes best, and if he has any Objection to Water, may take it in any other agreeable cold Liquor. Children in the Month may take two or three Drops for a Dose; those of a Year old may take seven or eight Drops; those of five or six Years old may take from twenty to twenty-five Drops, and so encreasing according to their Years: Or it may perhaps be better, in giving it to Children, to mix a Tea Spoonful of AETHER, with a convenient Quantity of Water, and, shaking it well, give at a Dose about one twentieth Part of this Mixture to a Child a Month old; about one eighth Part to a Child twelve or fourteen Months old; to those about five Years old one third Part of the Mixture; half of the Mixture to those about seven Years old, and two thirds of it to those about fourteen Years old.

The Method of applying the AETHER Externally.

To apply it Externally, you must procure a Bit of Linen Rag, of such a Dimension as to be conveniently covered by the Palm of the Hand; moisten this Rag with a little of the AETHER as it lies upon your Palm, and instantly apply it to the Part affected, pressing it very close, so as to prevent the Escape of it's Fumes, for two or three Minutes, in which Time the Rag will be found dry, and may be taken away. It will be more convenient, on some Occasions, (as in applying it to Paralytic Parts, Rheumatic Pains, and the Gout,) to place the Rag upon a Piece of a soft, thin Bladder and, when moisten'd with the AETHER, to bind it gently upon the Part. A slight Redness usually appears upon the Part after the Application, but it quickly vanishes; but it may sometimes happen, where the Skin is very tender and too much AETHER has been applied to the Forehead, or within the Ears, that it may affect the Skin more than the Patient chooses; which is avoided by applying a less Quantity for the future. This is the Secret of a present famous Practitioner, who having a Method sometimes of concealing his Application, is said to, cure the Head-ach, fixed Rheumatic Pains, &c. by the Touch of his Hand.

It is very easy to conceive, from the extreme Subtlety of this Medicine, that it must produce many excellent Effects in such Diseases as those above mentioned, as it is converted into Vapour by a much less Heat than the common Animal One; so that being swallowed, it can hardly subsist in any Part of the human Body under any Form but that of an extremely penetrating volatiliz'd Vapour; and it is perceptible by it's Smell, as it passes thro' the Pores of the Skin, several Hours, after taking; so that it's stay in the Body is longer, and, it's

Effects there more durable, than might be expected from such a subtle Substance.

Notwithstanding the extreme Subtlety of the AETHER, it is perfectly innocent and safe to take, as it contains nothing that is acrimonious or corrosive; so that it may be given even to the youngest Children without Hesitation. It neither purges nor vomits; nor does it encrease any of the sensible Evacuations, except that of Urine, and sometimes that of Sweat, if taken when in Bed; but as it is so distinctly perceived by the smell passing thro' the cutaneous Pores of those who take it, it is probable that it encreases insensible Perspiration. Another observable Property in this Medicine is, that it does not coagulate or thicken the Serum of the Blood, but thins it; and therefore has direct contrary Effects to all the common Spirituous Compositions, when either taken inwardly, or externally applied, and is essentially different from the most subtiliz'd Vinous Spirits; for tho' Spirit of Wine is used in making it, yet it is so far decomposed by the Process, that it's Nature is entirely changed. In consequence of this Quality in the AETHER, the Publisher has successfully dissolved some particular obstinate Tumours, by applying it to them, when other Means have failed.-----This Hint He hopes will not pass unnoticed by the Gentlemen of the Faculty, as it is evident no Application whatever can equal it in Subtlety and Dissolving Power.

The Medicine so much celebrated in _Germany_, and so frequently commended and used in Practice by the late famous Professor _Hoffman_, under the Title of his _Liquor Mineralis Anodynus_, was nearly of the same Nature with the AETHER, but not so powerful, nor so highly subtilized.

Repeated Experience has confirmed the Efficacy of this Medicine in all the Diseases before mentioned; and from the Consideration of it's uncommon Qualities, it may be presumed to be an excellent Remedy in many others, if judiciously given: Hence it seems surprising that so valuable an Addition, to the *Materia Medica* as the AETHER doubtless is, should have been so much neglected, or so little known; but the Reasons are, that the Process whereby it was made was kept secret by some who rated the Preparation at a very extravagant Price, and not sufficiently attended to by others, who consider'd it only as a Chemical Curiosity, not as a Medicine. The chief Merit the Publisher of this Account pretends to, is, _the ascertaining the Medicinal Virtues of this curious Preparation_, by several Years Experience, and making them more publickly known; _the reducing it's Price_, which has hitherto been so extravagant that had it's Virtues and Properties been known, only a small number of the afflicted could have enjoy'd the Benefit of it; and, _the bringing it to a greater Degree of Perfection than any hitherto sold_; what he offers being a perfectly rectified Vitriolic AETHER.

It may not be improper to give the Marks by which good AETHER may be known. It is perfectly colourless, except it has receiv'd some accidental Tinge from the Cork of the Phial in which it has been kept; and so volatile as to strike the Nose very powerfully. It's Smell is more or less sulphureous, according to the management of some Part of the Process. Wetting the Finger with it, or dropping a little upon the Hand, it vanishes instantly, and leaves no Moisture behind; so that the Part scarcely seems to have been wet. Half a Dozen Drops, dropped together upon a Table will disappear in a few Seconds of a Minute, and leave only the Appearance of a large oily Ring behind; but if it leaves the least Watery or Spirituous Moisture, or does not evaporate in much less than a Minute, it is not good. The best AETHER will dissolve in, or mix with, a certain Quantity of Water; and that is the best which requires the largest Quantity of Water to dissolve it: If, therefore, to fix Tea Spoonsful of Water in a small Phial, you add one of the AETHER to be examined, cork up the Phial, and shake them very well together, and upon standing a little while some part of the AETHER appears at Top, in form of Oil, sufficient to cover the surface of the Mixture, it may be pronounced good (provided it also answers, in the other Methods of Trial) and the more appears the better is the AETHER; but if none appears, or not enough to cover the surface of the Mixture, it was either adulterated, or not well rectified. If to this Mixture of AETHER and Water you add a little _Salt of Tartar_, and any Fermentation ensues, the AETHER was not well rectified. Upon shaking briskly a Phial containing AETHER, if the Bubbles, or Proof as they are usually called, do not disappear in less Time, and in larger Bubbles, than any other Liquor, (the Vinous Alcohol perhaps excepted) 'tis not Genuine.

It is the more necessary to observe these Rules of proving the Quality of the AETHER, as the imperfect Sorts have been found to disagree with the Stomach, and produce other bad Effects, besides disappointing the Patient's Expectation. The AETHER that has the foremention'd Properties, (for there are Preparations sold by the same name, which are very imperfect Imitations of it) is made and sold by M. TURNER, Surgeon, in *Liverpool*. The Ounce Phial *_two Shillings_*; the Half Ounce *one Shilling*. The Phials are square; the Word AETHER, inscribed on one Side, and M. TURNER on the opposite, and sealed with a Lion gardant, &c. Proper Abatement will be made to Druggists, Apothecaries, or the Gentlemen of the Faculty who use any considerable Quantity. To prevent it's escape and loss, a small Quantity of Water is put into each Phial, which should be kept with the Cork downwards, by which Means the AETHER is prevented, by the interposition of the Water, from evaporating.

The Publisher has also appointed it to be sold by Mr. *_R. Board_*, Chemist and Druggist, in *_Grace-church-street_*; and Mr. *_J. Wilkie_*, Bookseller, at the Bible in St. *_Paul's_* Churchyard, LONDON: and Mr. *_Peter Wilson_*, Bookseller, in *_Dame-street_*, DUBLIN.

End of the Project Gutenberg EBook of An Account of the Extraordinary Medicinal Fluid, called Aether, by Matthew Turner

*** END OF THIS PROJECT GUTENBERG EBOOK AETHER ***

***** This file should be named 12522.txt or 12522.zip ***** This and all associated files of various formats will be found in: <http://www.gutenberg.net/1/2/5/2/12522/>

Transcribed by David Ross <davidross@despammed.com> from an undated edition, c. 1761.

Updated editions will replace the previous one—the old editions will be renamed.

Creating the works from public domain print editions means that no one owns a United States copyright in these works, so the Foundation (and you!) can copy and distribute it in the United States without permission and without paying copyright royalties. Special rules, set forth in the General Terms of Use part of this license, apply to copying and distributing Project Gutenberg–tm electronic works to protect the PROJECT GUTENBERG–tm concept and trademark. Project Gutenberg is a registered trademark, and may not be used if you charge for the eBooks, unless you receive specific permission. If you do not charge anything for copies of this eBook, complying with the rules is very easy. You may use this eBook for nearly any purpose such as creation of derivative works, reports, performances and research. They may be modified and printed and given away—you may do practically ANYTHING with public domain eBooks. Redistribution is subject to the trademark license, especially commercial redistribution.

*** START: FULL LICENSE ***

THE FULL PROJECT GUTENBERG LICENSE PLEASE READ THIS BEFORE YOU DISTRIBUTE OR USE THIS WORK

To protect the Project Gutenberg–tm mission of promoting the free distribution of electronic works, by using or distributing this work (or any other work associated in any way with the phrase "Project Gutenberg"), you agree to comply with all the terms of the Full Project Gutenberg–tm License (available with this file or online at <http://gutenberg.net/license>).

Section 1. General Terms of Use and Redistributing Project Gutenberg–tm electronic works

1.A. By reading or using any part of this Project Gutenberg–tm electronic work, you indicate that you have read, understand, agree to and accept all the terms of this license and intellectual property

(trademark/copyright) agreement. If you do not agree to abide by all the terms of this agreement, you must cease using and return or destroy all copies of Project Gutenberg–tm electronic works in your possession. If you paid a fee for obtaining a copy of or access to a Project Gutenberg–tm electronic work and you do not agree to be bound by the terms of this agreement, you may obtain a refund from the person or entity to whom you paid the fee as set forth in paragraph 1.E.8.

1.B. "Project Gutenberg" is a registered trademark. It may only be used on or associated in any way with an electronic work by people who agree to be bound by the terms of this agreement. There are a few things that you can do with most Project Gutenberg–tm electronic works even without complying with the full terms of this agreement. See paragraph 1.C below. There are a lot of things you can do with Project Gutenberg–tm electronic works if you follow the terms of this agreement and help preserve free future access to Project Gutenberg–tm electronic works. See paragraph 1.E below.

1.C. The Project Gutenberg Literary Archive Foundation ("the Foundation" or PGLAF), owns a compilation copyright in the collection of Project Gutenberg–tm electronic works. Nearly all the individual works in the collection are in the public domain in the United States. If an individual work is in the public domain in the United States and you are located in the United States, we do not claim a right to prevent you from copying, distributing, performing, displaying or creating derivative works based on the work as long as all references to Project Gutenberg are removed. Of course, we hope that you will support the Project Gutenberg–tm mission of promoting free access to electronic works by freely sharing Project Gutenberg–tm works in compliance with the terms of this agreement for keeping the Project Gutenberg–tm name associated with the work. You can easily comply with the terms of this agreement by keeping this work in the same format with its attached full Project Gutenberg–tm License when you share it without charge with others.

1.D. The copyright laws of the place where you are located also govern what you can do with this work. Copyright laws in most countries are in a constant state of change. If you are outside the United States, check the laws of your country in addition to the terms of this agreement before downloading, copying, displaying, performing, distributing or creating derivative works based on this work or any other Project Gutenberg–tm work. The Foundation makes no representations concerning the copyright status of any work in any country outside the United States.

1.E. Unless you have removed all references to Project Gutenberg:

1.E.1. The following sentence, with active links to, or other immediate access to, the full Project Gutenberg–tm License must appear prominently whenever any copy of a Project Gutenberg–tm work (any work on which the phrase "Project Gutenberg" appears, or with which the phrase "Project Gutenberg" is associated) is accessed, displayed, performed, viewed, copied or distributed:

This eBook is for the use of anyone anywhere at no cost and with almost no restrictions whatsoever. You may copy it, give it away or re–use it under the terms of the Project Gutenberg License included with this eBook or online at www.gutenberg.net

1.E.2. If an individual Project Gutenberg–tm electronic work is derived from the public domain (does not contain a notice indicating that it is posted with permission of the copyright holder), the work can be copied and distributed to anyone in the United States without paying any fees or charges. If you are redistributing or providing access to a work with the phrase "Project Gutenberg" associated with or appearing on the work, you must comply either with the requirements of paragraphs 1.E.1 through 1.E.7 or obtain permission for the use of the work and the Project Gutenberg–tm trademark as set forth in paragraphs 1.E.8 or 1.E.9.

1.E.3. If an individual Project Gutenberg–tm electronic work is posted with the permission of the copyright holder, your use and distribution must comply with both paragraphs 1.E.1 through 1.E.7 and any additional terms imposed by the copyright holder. Additional terms will be linked to the Project Gutenberg–tm License

for all works posted with the permission of the copyright holder found at the beginning of this work.

1.E.4. Do not unlink or detach or remove the full Project Gutenberg–tm License terms from this work, or any files containing a part of this work or any other work associated with Project Gutenberg–tm.

1.E.5. Do not copy, display, perform, distribute or redistribute this electronic work, or any part of this electronic work, without prominently displaying the sentence set forth in paragraph 1.E.1 with active links or immediate access to the full terms of the Project Gutenberg–tm License.

1.E.6. You may convert to and distribute this work in any binary, compressed, marked up, nonproprietary or proprietary form, including any word processing or hypertext form. However, if you provide access to or distribute copies of a Project Gutenberg–tm work in a format other than "Plain Vanilla ASCII" or other format used in the official version posted on the official Project Gutenberg–tm web site (www.gutenberg.net), you must, at no additional cost, fee or expense to the user, provide a copy, a means of exporting a copy, or a means of obtaining a copy upon request, of the work in its original "Plain Vanilla ASCII" or other form. Any alternate format must include the full Project Gutenberg–tm License as specified in paragraph 1.E.1.

1.E.7. Do not charge a fee for access to, viewing, displaying, performing, copying or distributing any Project Gutenberg–tm works unless you comply with paragraph 1.E.8 or 1.E.9.

1.E.8. You may charge a reasonable fee for copies of or providing access to or distributing Project Gutenberg–tm electronic works provided that

- You pay a royalty fee of 20% of the gross profits you derive from the use of Project Gutenberg–tm works calculated using the method you already use to calculate your applicable taxes. The fee is owed to the owner of the Project Gutenberg–tm trademark, but he has agreed to donate royalties under this paragraph to the Project Gutenberg Literary Archive Foundation. Royalty payments must be paid within 60 days following each date on which you prepare (or are legally required to prepare) your periodic tax returns. Royalty payments should be clearly marked as such and sent to the Project Gutenberg Literary Archive Foundation at the address specified in Section 4, "Information about donations to the Project Gutenberg Literary Archive Foundation."

- You provide a full refund of any money paid by a user who notifies you in writing (or by e–mail) within 30 days of receipt that s/he does not agree to the terms of the full Project Gutenberg–tm License. You must require such a user to return or destroy all copies of the works possessed in a physical medium and discontinue all use of and all access to other copies of Project Gutenberg–tm works.

- You provide, in accordance with paragraph 1.F.3, a full refund of any money paid for a work or a replacement copy, if a defect in the electronic work is discovered and reported to you within 90 days of receipt of the work.

- You comply with all other terms of this agreement for free distribution of Project Gutenberg–tm works.

1.E.9. If you wish to charge a fee or distribute a Project Gutenberg–tm electronic work or group of works on different terms than are set forth in this agreement, you must obtain permission in writing from both the Project Gutenberg Literary Archive Foundation and Michael Hart, the owner of the Project Gutenberg–tm trademark. Contact the Foundation as set forth in Section 3 below.

1.F.

1.F.1. Project Gutenberg volunteers and employees expend considerable effort to identify, do copyright research on, transcribe and proofread public domain works in creating the Project Gutenberg–tm collection.

Despite these efforts, Project Gutenberg–tm electronic works, and the medium on which they may be stored, may contain "Defects," such as, but not limited to, incomplete, inaccurate or corrupt data, transcription errors, a copyright or other intellectual property infringement, a defective or damaged disk or other medium, a computer virus, or computer codes that damage or cannot be read by your equipment.

1.F.2. LIMITED WARRANTY, DISCLAIMER OF DAMAGES – Except for the "Right of Replacement or Refund" described in paragraph 1.F.3, the Project Gutenberg Literary Archive Foundation, the owner of the Project Gutenberg–tm trademark, and any other party distributing a Project Gutenberg–tm electronic work under this agreement, disclaim all liability to you for damages, costs and expenses, including legal fees. **YOU AGREE THAT YOU HAVE NO REMEDIES FOR NEGLIGENCE, STRICT LIABILITY, BREACH OF WARRANTY OR BREACH OF CONTRACT EXCEPT THOSE PROVIDED IN PARAGRAPH F3. YOU AGREE THAT THE FOUNDATION, THE TRADEMARK OWNER, AND ANY DISTRIBUTOR UNDER THIS AGREEMENT WILL NOT BE LIABLE TO YOU FOR ACTUAL, DIRECT, INDIRECT, CONSEQUENTIAL, PUNITIVE OR INCIDENTAL DAMAGES EVEN IF YOU GIVE NOTICE OF THE POSSIBILITY OF SUCH DAMAGE.**

1.F.3. LIMITED RIGHT OF REPLACEMENT OR REFUND – If you discover a defect in this electronic work within 90 days of receiving it, you can receive a refund of the money (if any) you paid for it by sending a written explanation to the person you received the work from. If you received the work on a physical medium, you must return the medium with your written explanation. The person or entity that provided you with the defective work may elect to provide a replacement copy in lieu of a refund. If you received the work electronically, the person or entity providing it to you may choose to give you a second opportunity to receive the work electronically in lieu of a refund. If the second copy is also defective, you may demand a refund in writing without further opportunities to fix the problem.

1.F.4. Except for the limited right of replacement or refund set forth in paragraph 1.F.3, this work is provided to you 'AS-IS', WITH NO OTHER WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE.

1.F.5. Some states do not allow disclaimers of certain implied warranties or the exclusion or limitation of certain types of damages. If any disclaimer or limitation set forth in this agreement violates the law of the state applicable to this agreement, the agreement shall be interpreted to make the maximum disclaimer or limitation permitted by the applicable state law. The invalidity or unenforceability of any provision of this agreement shall not void the remaining provisions.

1.F.6. INDEMNITY

– You agree to indemnify and hold the Foundation, the trademark owner, any agent or employee of the Foundation, anyone providing copies of Project Gutenberg–tm electronic works in accordance with this agreement, and any volunteers associated with the production, promotion and distribution of Project Gutenberg–tm electronic works, harmless from all liability, costs and expenses, including legal fees, that arise directly or indirectly from any of the following which you do or cause to occur: (a) distribution of this or any Project Gutenberg–tm work, (b) alteration, modification, or additions or deletions to any Project Gutenberg–tm work, and (c) any Defect you cause.

Section 2. Information about the Mission of Project Gutenberg–tm

Project Gutenberg–tm is synonymous with the free distribution of electronic works in formats readable by the widest variety of computers including obsolete, old, middle-aged and new computers. It exists because of the efforts of hundreds of volunteers and donations from people in all walks of life.

Volunteers and financial support to provide volunteers with the assistance they need, is critical to reaching Project Gutenberg™'s goals and ensuring that the Project Gutenberg™ collection will remain freely available for generations to come. In 2001, the Project Gutenberg Literary Archive Foundation was created to provide a secure and permanent future for Project Gutenberg™ and future generations. To learn more about the Project Gutenberg Literary Archive Foundation and how your efforts and donations can help, see Sections 3 and 4 and the Foundation web page at <http://www.pgla.org>.

Section 3. Information about the Project Gutenberg Literary Archive Foundation

The Project Gutenberg Literary Archive Foundation is a non profit 501(c)(3) educational corporation organized under the laws of the state of Mississippi and granted tax exempt status by the Internal Revenue Service. The Foundation's EIN or federal tax identification number is 64-6221541. Its 501(c)(3) letter is posted at <http://pgla.org/fundraising>. Contributions to the Project Gutenberg Literary Archive Foundation are tax deductible to the full extent permitted by U.S. federal laws and your state's laws.

The Foundation's principal office is located at 4557 Melan Dr. S. Fairbanks, AK, 99712., but its volunteers and employees are scattered throughout numerous locations. Its business office is located at 809 North 1500 West, Salt Lake City, UT 84116, (801) 596-1887, email business@pgla.org. Email contact links and up to date contact information can be found at the Foundation's web site and official page at <http://pgla.org>

For additional contact information: Dr. Gregory B. Newby Chief Executive and Director gbnewby@pgla.org

Section 4. Information about Donations to the Project Gutenberg Literary Archive Foundation

Project Gutenberg™ depends upon and cannot survive without wide spread public support and donations to carry out its mission of increasing the number of public domain and licensed works that can be freely distributed in machine readable form accessible by the widest array of equipment including outdated equipment. Many small donations (\$1 to \$5,000) are particularly important to maintaining tax exempt status with the IRS.

The Foundation is committed to complying with the laws regulating charities and charitable donations in all 50 states of the United States. Compliance requirements are not uniform and it takes a considerable effort, much paperwork and many fees to meet and keep up with these requirements. We do not solicit donations in locations where we have not received written confirmation of compliance. To SEND DONATIONS or determine the status of compliance for any particular state visit <http://pgla.org>

While we cannot and do not solicit contributions from states where we have not met the solicitation requirements, we know of no prohibition against accepting unsolicited donations from donors in such states who approach us with offers to donate.

International donations are gratefully accepted, but we cannot make any statements concerning tax treatment of donations received from outside the United States. U.S. laws alone swamp our small staff.

Please check the Project Gutenberg Web pages for current donation methods and addresses. Donations are accepted in a number of other ways including including checks, online payments and credit card donations. To donate, please visit: <http://pgla.org/donate>

Section 5. General Information About Project Gutenberg™ electronic works.

Professor Michael S. Hart is the originator of the Project Gutenberg™ concept of a library of electronic works that could be freely shared with anyone. For thirty years, he produced and distributed Project Gutenberg™ eBooks with only a loose network of volunteer support.

Project Gutenberg—tm eBooks are often created from several printed editions, all of which are confirmed as Public Domain in the U.S. unless a copyright notice is included. Thus, we do not necessarily keep eBooks in compliance with any particular paper edition.

Each eBook is in a subdirectory of the same number as the eBook's eBook number, often in several formats including plain vanilla ASCII, compressed (zipped), HTML and others.

Corrected EDITIONS of our eBooks replace the old file and take over the old filename and etext number. The replaced older file is renamed. VERSIONS based on separate sources are treated as new eBooks receiving new filenames and etext numbers.

Most people start at our Web site which has the main PG search facility:

<http://www.gutenberg.net>

This Web site includes information about Project Gutenberg—tm, including how to make donations to the Project Gutenberg Literary Archive Foundation, how to help produce our new eBooks, and how to subscribe to our email newsletter to hear about new eBooks.

EBooks posted prior to November 2003, with eBook numbers BELOW #10000, are filed in directories based on their release date. If you want to download any of these eBooks directly, rather than using the regular search system you may utilize the following addresses and just download by the etext year. For example:

<http://www.gutenberg.net/etext06>

(Or /etext 05, 04, 03, 02, 01, 00, 99, 98, 97, 96, 95, 94, 93, 92, 91 or 90)

EBooks posted since November 2003, with etext numbers OVER #10000, are filed in a different way. The year of a release date is no longer part of the directory path. The path is based on the etext number (which is identical to the filename). The path to the file is made up of single digits corresponding to all but the last digit in the filename. For example an eBook of filename 10234 would be found at:

<http://www.gutenberg.net/1/0/2/3/10234>

or filename 24689 would be found at: <http://www.gutenberg.net/2/4/6/8/24689>

An alternative method of locating eBooks: <http://www.gutenberg.net/GUTINDEX.ALL>

An Account of the Extraordinary Medicinal Fluid, called Aether.

from <http://manybooks.net/>