# The circulation.

# Contributors

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in the city of the Seine, and the invocation and nothing else. still thrills many souls whenever it is heard :

Sancta Genovefa Urbis et Gallize Patrona, ora pro nobis.

Holy Généviève, patroness of the city and country of Gaul, pray for us!

#### THE CIRCULATION.

To arrive at a truth, it is often necessary to hew the way through a thicket of error; and one man's labour does not always suffice to do the work. Sometimes, when the screen is nearly removed by the efforts of several successive pioneers, a few remaining tangled branches will still serve to intercept a clear view of the important fact about to be revealed. So it was with the discovery of the circulation of the blood, which Harvey had the honour of finally inaugurating, though numerous predecessors had put their hand to the achievement. The task was spread over more than a single epoch. Among the ancients, Galen began by refuting Erasistratus; whilst in modern times, the student Fagon risked an audacious act which, at that date, could only be undertaken by a young man, and only justified by great success. He maintained in a thesis the circulation of the blood ; and the old doctors allowed that he defended this strange paradox with a talent worthy of a better cause !

Three important errors had to be swept away, before Harvey could arrive at his grand conclusion. Erasistratus, the author of the first, believed that the arteries contained not blood, but air only. According to his ideas, we breathe for no other purpose than to fill the arteries with air. The arteries were air-channels, whence their name, derived from two Greek words, signifying to draw air. The air, drawn in by the lungs, reached them by the trachea-artery, properly so called ; from the trachea, it passed into the venous artery (now called the pulmonary vein) ; from the venous artery, it passed into the left ventricle,

aithful kneel, the tapers burn, and the sanguineous system or the circulating sys-miraculous cures are sought. Normaus and tem, was then divided into two systems-the

miraculous cures are sought. Normaus and Jacobins, philosophers and act. Normaus and Jacobins, philosophers and act. Normaus and doubt had their moments of the total for the source of sainte, still makes thousands of eyes sparkle Again, therefore, the arteries contain blood,

"But," argued the partisans of Erasistratus, "if the arteries contain blood, how can the air which is inspired by the lungs, pass throughout the whole body ?"

"It does not pass throughout it," answered Galen. "The air drawn in, is sent out again. It serves the purposes of respiration, by its temperature, and not by its substance. It cools the blood, and that is the only use of respiration.'

It is true that this is far from what we know about respiration at the present day; it is even contrary to the fact. Instead of cooling the blood, respiration warms it, being the only source of animal heat. Nevertheless, relatively to Erasistratus, who asserted that the air traversed the arteries in totality, in mass, in substance, exactly as it passes down the windpipe; that it was air which distended the arteries, which made them beat, which was the cause of the pulse : Galen's idea was an advance in science, and such an advance that the whole force of physiology could not set a step further without the aid of modern chemistry. Haller still believed that respiration cooled the blood. Galen, therefore, demolished error the first; he was less fortunate with the remaining two. Still he proved that the arteries contain no air, but blood only, like the veins. An entire half of the sanguineous system, detached from that system by a mere hypothesis, was restored to it ; and as the circulation is no other than the movement which incessantly carries the blood from the heart to the arteries, from the arteries to the veins, and by means of the veins brings it back to the heart-the discovery of the circulation of the blood was impossible, so long as the arteries were supposed to be filled with air alone. Until the step which Galen made, any other progress was impracticable.

Error the second. The partition, or diaphragm, which separates the two ventricles of the heart, is not pierced with holes, minute and from the left ventricle, it (always the or large; there is no passage through it. air) passed into the arteries, which carried How, then, did it happen that Galen believed, it to the members. What we now call the nay, even saw that there was a passage?

[June 12, 1857.] 561

Tharles Dickens.]

[Conducted by

A lesson, this, for observers in the one. physical sciences. Galen's theory was, that the veins, like the arteries, carried the blood to the members ; but there were two bloods -namely, the spirituous blood, the blood of the arteries and of the left ventricle ; and the venous blood, the blood properly so called, the blood of the veins and of the right heart. And this, again, was an advance. It was the first indication of two kinds of blood, now so clearly distinguished, the arterial and the venous blood, the red blood and the black blood, the blood which has breathed, and that which has not breathed. According to Galen, each of his two bloods had a special destination ; the spirituous blood nourished the light and delicate organs, such as the lungs ; the venous blood fed the coarse and heavy organs, such as the liver. The spirit, the purest portion of the blood, was only formed in the left ventricle; and, as the venous blood, to be serviceable for nutrition, required a certain portion of spirit, therefore the two ventricles must have a communication, which took place by means of the pretended holes in the partition which separates them. For Galen, then, this partition was traversable by the blood, because he had adopted a theory which required it to be so. For the early modern anatomists, this partition was pierced, because Galen had said so. Berenger de Carpi was the first to confess that the holes were not very visible; and Vésale, the father of modern anatomy, alone dared to assert that they do not exist. But one side of the heart to the other, through he does not go so far as that all at once. He begins by repeating, with all the others, that the blood passed from one ventricle to the other by the holes in the partition ; but soon, carried away by the force of the fact which he beholds, and which he has within his grasp, he declares that he only spoke in that way to fall in with Galen's dogmas ; for, in reality, the tissue of which the partition is composed is just as thick and compact as the rest of 'to heart; and through this thick tissue not a single drop of blood could pass. Vésale had made a grand stride in advance.

The next step, the discovery of the pulmonary circulation, was due to Servetus, as a single admirable passage from his works demonstrates. "The communication," he says (that is, the passage of the blood from the right ventricle into the left), "is not made through the partition between them, as is commonly imagined; but, by a long and wonderful détour, the blood is conducted through the lungs, where it is agitated and prepared, where it becomes yellow, and passes from the arterial vein into the venous artery." The new idea is comprised in these words ; the completed idea, which gave us the pulmonary circulation, consisted in comprehending that the blood passes from the pulmonary artery into the pulmonary vein; that the of the general circulation, not a single word. blood, starting from the right heart by the Galen had contrived a very symmetrical

Simply because he imagined there must be pulmonary artery, returns to the left heart by the pulmonary vein; that the blood, proceeding from the heart, goes back to the heart ; that there is, consequently, a circula-tion, a circuit. This idea, so grand, so novel, of a circulation, a circuit, was first entertained by Servetus. He was a man of considerable genius : of his theological works this is not the place to speak. But, whether his doctrines were right or wrong, at least he did not burn Calvin at the stake, but was burnt by him. Singularly enough, the book which brought him to a heretic's death, and which contains his purely and profoundly physiological discovery, is entitled, "Christianismi Restitutio," the Restitution of Christianity. In theology, he persisted in maintaining the literal sense of texts, and so accepted the passage, "the blood is the life," -" anima est in sanguine ; anima ipsa est sanguis." Hence his researches into the formation of the blood, and the inferences which led him to the pulmonary circulation. He called attention to the mingling of air with the blood in the lungs, remarking that its bright colour is given to the blood by the lungs, and not by the heart. We now know that it is not the whole of the air, but only the oxygen contained in it, which produces the change of colour. But with that exception, with the exception of the analysis of the air, which Servetus was unable to forestall, and which is the marvel of modern chemistry, how correct the idea is! Servetus not only discovered the true course of the blood from the lungs ; but he discovered the true seat of sanguification, of the transformation of the blood, of the change of black blood into red. Galen fixed the place of sanguification in the liver ; Servetus was the first who referred it to the lungs. The truth was not remarked at the time, and its scope was not understood till much later; and, in fact, only received its full development from the experiments of more recent physiologists, as Goodwin and Bichat.

Six years after Servetus, Realdo Colombo, one of the best anatomists ever possessed by Padua (where there have been many), discovered independently the pulmonary circulation. Finally, Césalpin, without quoting Colombo (which he certainly would have done had he known his publication), discovered, in his turn, the pulmonary circulation; and this time it is not merely the fact which appears, but the word. Césalpin formally styles the passage of the blood from one half of the heart to the other, by the lungs, "cir-culation." The pulmonary circulation was, therefore, revealed ; but, up to this point, up to Césalpin-of the general circulation, of the circulation of the whole body, of the circulation which is called the grand, in distinction to the pulmonary, which is called the little-Galen had contrived a very symmetrical

hysiology; he had four temperaments, and our humours. He had three spirits, and hree sources of those spirits. Moreover, the rain was the origin of all the nerves; the eart the origin of all the arteries ; the liver he origin of all the veins. The veins proeeding from the liver carried the blood to he members; a strange mistake, which the nost simple experiment, or even the most imple attention to an every-day experiment, yould have sufficed to rectify. For, in fact, leeding was practised daily, and every-day cople could see the vein swell below and ot above the ligature. Consequently, in the eins, the blood flowed from the members owards the heart, and not from the heart to he members. Césalpin is the first-the only ne before Harvey-who called attention to his swelling of the veins which, as just bserved, always takes place below and never bove the ligature. But Césalpin had a nind of a superior order; he was the first mong the moderns to avail himself of nethod in natural science—that is, of classiication founded on organisation. He has he double glory of giving us a method, and f communicating the idea of the two circuations.

Fabricius, of Acquapendente, also enjoys a louble glory. He was Harvey's master, and n fifteen hundred and seventy-four he disovered the valvules of the veins. He saw clearly that they are directed towards the neart. They prevent, therefore, the passage of the blood in the veins in the direction from the heart to the members; it flows, herefore, from the members to the heart, the reverse of what takes place in the rteries, which have no valvules. The valvules of the veins are the anatomical proof of the circulation of the blood; the proof that it makes a circuit, that it returns to the point whence it started ; but Fabricius hid not perceive that proof. He observed the fact, but failed to draw from it the mportant inference which Harvey alone was able to deduce.

When Harvey appeared, every point relative to the circulation had been already indicated or suspected—nothing was established. And so true is that assertion, that Fabricius, who came after Césalpin, and who discovered the valvules of the veins, was ignorant of the circulation. Césalpin himself, who observed so well the two circulations, mingled the error of the passage through the partition of the ventricles with the idea of the pulmonary circulation. Colombo repeats, with Galen, that the veins spring from the liver, and carry the blood to the members.

Sprengel is right in saying that Harvey is best explained by his education at Padua. Doubtless, it was fortunate for Harvey to be educated at Padua; but also it was fortunate for the circulation to fall into the hands of Harvey, the man most competent to study it, to investigate its phenomena thoroughly, and

to explain their full import. Harvey's work is a masterpiece. This little book of a hundred pages is the finest literary effort physiology has produced. Harvey begins by the movements of the heart ; and first he remarks that the auricle and the ventricle of each heart contract successively. After the heart, come the arteries. Galen had said that the arteries beat in consequence of a pulsative virtue, which they derive from the heart through their coats. Harvey, by opening an artery, and watching the unequal jets in which the blood issued from it, concluded that an artery beats by impulsion,—by the blow of the blood with which it is distended. If the artery dilated of itself, it would not be at the moment when it swells that it would drive the blood with the greatest force. Harvey took advantage of a case of ossification of the crural artery which he had occasion to observe. The artery beat below the ossification, which, therefore, did not intercept the effect of the pretended pulsative virtue ; or, rather, that virtue has no existence. The pulsation of the arteries is due solely to the movement of the blood, to the impulse of the blood on the coats of the arteries.

From the arteries, Harvey proceeds to the veins; and there he draws from the valvules their full import-namely, that they allow the blood to move only in one direction. Lastly, Harvey comes to his experiments. They are few, but decisive, indicative of his genius. When a limb is slightly bound, the blood is checked in the veins only, because the veins alone are superficial. If the limb be bound more tightly, the blood is stopped in the arteries also, which are deep-seated. When a vein is compressed, the swelling takes place below the ligature; when an artery is compressed, it swells above the ligature. The blood, therefore, flows in contrary directions in the veins and in the arteries ; in the veins, it goes from the members to the heart; in the arteria, from the heart to the members.

When any artery is opened and the blood allowed to flow without check, the whole of the blood contained in an animal's body will issue by this orifice. Therefore, all the parts of the circulating apparatus must communicate with each other - the heart, the arteries, and the veins. And if, in fact, you think of the prodigious rapidity of the current of the blood, you will see that it cannot be otherwise; for as soon as the blood has entered the heart, it leaves it to pass to the arteries; as soon as it has entered the arteries, it is driven forward to pass over to the veins; as soon as it is in the veins, it is sent on to the heart again. It flows, there-fore, continually from the heart to the arteries, from the arteries to the veins, and from the veins to the heart. This movement, this continual return, is the circulation.

Modern physiology takes its date from the discovery of the circulation of the blood,

which marks the advent and accession of the a man was Harvey's most formidable advermoderns to scientific power and independence. | sary. Hitherto they had followed the ancients : now, they dared to walk alone. Three years actually witnessing with our own eyes, the afterwards, Aselli discovered the chyliferous phenomenon so furiously denied by a crowd vessels; subsequently, Pecquet pointed out the reservoir of the chyle, and Rudbeck and Thomas Bartholin the lymphatic vessels—all unknown, or very obscurely known, to the ancients. Harvey had discovered the most narrative-demonstrates the fact by a striking beautiful phenomenon in the animal economy, which was beyond the reach of antiquity. Plantes, in order to imitate, before the eyes The mantel of authority fell from classic of his pupils, the passage of the blood from shoulders to adorn those of the English phy- the arteries to the veins, he opens the crural sician. Doctors, instead of swearing by Galen artery and vein in the leg of a dead dog.

without violent rebellions and attempts at injected into the artery, returns by the vein. counter-revolution. It was regarded as a It is the complete representation of the cirdangerous heresy ; when ridicule failed to culation of the blood. But, by means of the crush it, there was little scruple in em- microscope, the circulation in the living ploying something, like persecution. Still animal may be distinctly beheld. All that is it was the faculty alone, and not the nation, required is to select some part sufficiently who showed this repugnance to a novel thin to allow the transmission of light through truth. Molière laughed at Gui-Patin, while its substance. The ear of a mouse will do, Boileau satirised the faculty in general, but is inconvenient; the wing of a bat might Harvey had no sooner published his book answer better. Or, the tail of a small fish on the circulation of the blood, than twenty (such as an eel, a minnow, or a stickleback), anatomists took up their pens to assail it. confined in a glass tube-or the gills of a Harvey did not answer them. Riolan, the young newt-will serve the purpose. The most learned anatomist of his time, was web of a frog's foot is commonly used; the the only man whom Harvey honoured with tongue of that victim reptile is vaunted as a reply. When his enemies found they were displaying the spectacle marvellously; but, unable to provoke him into saying a word as I pleaded in a late article, is too cruel a in self-defence, they got tired of waging an aggressive criticism, and allowed the everyday curiosity. "This method," as Dr. novel doctrine to spread and make its Carpenter humanely observes, "is so much way

and the same illness; he had himself bled the red corpuscles running along the arteries, seven times for a cold; he bled his mother- then entering the capillaries or hair-like in-law, who was eighty years of age, four times; he bled a child three days old; he bled his own wife eight times from the veins and that, end foremost. These capillaries are of her arm, and then he bled her from the the communicating tubes, the connecting veins of her foot. She recovered, and he transit from the arteries to the veins; and exclaimed, "Bleeding for ever !" He you may watch the blood-discs, which have purged a patient, every other day, thirty- traversed the border-land in Indian file, retwo times ; then he talks of another patient turning in congregated troops to the heart, who was bled, in all, twenty-two times thence to repeat their round as long as life and purged forty times, "We cure many shall last. The camel tribe, exceptional more sick persons," says Gui-Patin, "with animals in other respects, are the only mama good lancet and a pound of senna, than mal quadrupeds which have the blood-discs the Arabs could cure with their whole oval. Of common animals, the goat has very pharmacopœia of syrups and opiates." Such small corpuscles, but they are twice as large

At the present day we have the means of experiment. In his lessons at the Jardin des and Aristotle, were now compelled to swear He inserts a pipe into the open end of the by Harvey. Hervey, and injects water by means of a Not that the novel conquest was effected syringe. In a very few instants, the water, more distressing to the animal, that its emway. Molière's famous Chorus of Doctors, and his other bitter jibes, were hardly a joke or a caricature of Gui-Patin's practice; for, starting with the laudable idea of simpli-fying medical treatment, he reduced it to the sole remedies of bleeding and purging. A statement of what he did in that line would be believed an exaggerated stretch of the long-bow, if it were not extracted from his own letters. He bled patients at every age, infants as well as old people; he bled a patient thirty-two times for one and the same illness; he had himself bled

#### Charles Dickens.]

THE DEAD SECRET.

as those of the musk-deer. The large size | But I should tell thee, in his spirit's shrine, of the blood-discs in the frog family has been of great convenience to students of physiology, allowing their movements to be watched under what microscopists would call a low power, or one that magnifies a hundred liameters, or thereabouts, more or less.

#### STORY OF A GRAVE.

HERE, while yon sunset's golden overflow Touches the churchyard with its dream of Heaven, Rest on this grave beneath the solemn glow,

The grave, the garden where my heart hath striven To plant its hopes, that hence their trailing flowers Might climb to colour in celestial bowers.

Here sleeps my only son : this grave's sad length Tells thee that death no dreaming babe beguiled,-

A stately man in stature and in strength, Only in tenderness to me a child,

How well that tenderness my heart supplied knew but by its craving when he died.

But still it feels the thrill of its old joy When friends rare genius in the babe foretold, Or said the strange, sweet fancies of the boy, Rich as red rose-leaves, hid a heart of gold ; And when his life fulfill'd the prophecy, My dear, dear child, he gave the praise to me.

Ah, Hope's bright name to me seem'd written o'er Each grave book gather'd from his father's toil, While greedily I learn'd their ancient lore

To drop it softly on my precious soil. Hope lighted up the glorious path he tried, And wise men mark'd his steps, and then he died.

Had I no triumph when great spirits caught Fire from the kindling of his soul-lit eye? I, who had seen its first soft glimmering thought

Like a star trembling in a dewy sky, Watch'd the first rapture of its childish glance At fairy-tale, and poem, and romance.

Eyes true and clear, as when at morn and even They fill'd with baby-worship at my knee,-O, 'twas the carnest of an early heaven. The Eden-dew of pure simplicity Upon my pleasant plant was never dried, God gather'd it, and mortals said he died.

I taught him first the beautiful to see, Folded in flowers, glowing in green leaves ; Touch'd him with moonlight and cloud scenery, Pour'd the soft purple of still summer eves Over his fancy in its young fresh glow ; But, O ! the beauty mirror'd in it now !

He was a poet born, and his last dream Now sweeps its noble music through the land ; And yet how dear the charmed verses seem,

Penn'd to his mother by his boyish hand. Love sings his life-song with unbroken pride; Alas ! with this refrain, he died, he died !

And still to me his room is holy ground, There hang his paintings as in days gone past, There all his instruments of lovely sound,

His books,-one open where he read it last ! And in the window stand his desk and chair : I sometimes fancy that he too is there.

Was one to whom his inmost self had grown,

Through whose poor mind he pour'd his thoughts like wine,

And deem'd their colour'd beauty all her own. I almost grudged him to that fend young bride,-O! I repented sorely when he died !

Fondness-it perish'd in the grave's chill air, Frail as the feathers of a butterfly ; She was so young, so exquisitely fair, Perhaps 'twas natural her love should die. She wedded soon, that gave him back to me, Yet I was jealous for his memory.

And thus his young heroic life was shed,-His only foe was drowning in his sight, He saved him, then went weary to his bed, Nor rose from that triumphant woeful night. My gallant boy ! his virtues high were tried, Thank God, he flinch'd not, though he therefore died.

His father, 'neath that grief hath fail'd so fast, Since then, his hair, but not with age, is white; Mine, at the moment when the spirit pass'd, Turn'd iron-grey, as with some sudden blight, When to the silent lips my own I press'd, And hunger'd for one breath, and felt his rest.

My coming loss God show'd me tenderly. A little daughter in my heart he set, Few years before it wept its broken tree, I saw not in my half-shut violet

How large the mercy its fresh leaves could hide, Nor felt the gentle warning till he died.

But well I know he died to realise The holy beauty of his high-wrought dream ;

Yea, in my soul, I see his star-like eyes Burn with some glorious spiritual theme ; Nor think his aspirations high were given To flutter here and fold their wings in heaven,

To him that marble did his townsmen rear: And showing whence he caught poetic fire,

See how the grand, screne Archangel there Casts down the wreath but carries up the lyre; And I, I planted on the sacred spot

The weeping willow and forget-me-not.

The blessings of the poor fall over it, And fresh wild flowers from childish fingers rain; Here oft his father and his sister sit

With me, and talk him back to us again, Knowing there is a rest that doth abide, Where we shall soon forget that he hath dicd.

#### THE DEAD SECRET.

CHAPTER THE TWENTY-SEVENTH. FORTY THOUSAND POUNDS.

No popular saying is more commonly accepted than the maxim which asserts, that Time is the great consoler ; and, probably, no popular saying more imperfectly expresses the truth. The work that we must do, the responsibilities that we must undertake, the example that we must set to others,-these are the great consolers, for these apply the first remedies to the malady of grief. Time possesses nothing but the negative virtue of helping it to wear itself out. Who that has observed at all, has not perceived that those

among us who soonest recover from the shock over and over again : "They are all goneof a great grief for the dead, are those who have most duties to perform towards the living? When the shadow of calamity rests I and my little bit of box are left alone on our houses, the question with us is, not together in the world. Mozart can sing how much time will suffice to bring back the no more. He has sung to the last of them sunshine to us again, but how much occupa- now !" tion have we got to force us forward into the place where the sunshine is waiting him. On the third, Rosamond placed the for us to come? Time may claim many victories, but not the victory over grief. bosom, laid a lock of her own hair round it, The great consolation for the loss of the and kissed the sad, peaceful face for the last dead who are gone is to be found in the time. The old man was with her at that

that the darkness of a heavy affliction had with her to her husband, he was still sunk in fallen on it, was in itself the sufficient illus- the same apathy of grief which had overtration of this truth. When all the strength whelmed him from the first. But when they even of her strong character had been pros- began to speak of the removal of the remains trated by the unspeakably awful shock of her the next day to Porthgenna churchyard, they mother's sudden death, it was not the slow noticed that his dimeyes brightened suddenly, lapse of time that helped to raise her up and that his wandering attention followed again, but the necessity which would not every word they said. After a while, he rose wait for time-the necessity which made her remember what was due to the husband who sorrowed with her, to the child whose young life was linked to hers, and to the old man whose helpless grief found no support but in the comfort she could give, learnt no lesson of resignation but from the example she could set.

taining him had rested on her shoulders remains to be removed under the charge of alone. Before the close of day had been counted out by the first hour of the night, she had been torn from the bedside by the him the fittest person to be charged with necessity of meeting him at the door, and preparing him to know that he was entering the chamber of death. To guide the dreadful truth gradually and gently, till it stood face to face with him, to support him under the shock of recognising it, to help his mind to recover after the inevitable blow had struck return to Cornwall in time to be at Porthit at last, these were the sacred duties which claimed all the devotion that Rosamond had to give, and which forbade her heart to dwell selfishly on its own grief. It was not the least of the trials she had now to face, to see the condition of vacant helplessness to which he was reduced under the weight of an affliction which he had no strength to Rosamond was speaking, but he only rebear.

He looked like a man whose faculties had been stunned past recovery. He would sit the idea of going back to Cornwall with all for hours with the musical-box by his side, patting it absently from time to time, and Leonard and Rosamond both saw that it whispering to himself as he looked at it, but | would be useless to oppose it, both felt that never attempting to set it playing. It was it would be cruelty to keep him with them, the one memorial left that reminded him of and kindness to let him go away. After all the joys and sorrows, the simple family privately charging the servant to spare him interests and affections of his past life. When all trouble and difficulty, to humour him by Rosamond first sat by his side and took his acceding to any wishes that he might exhand to comfort him, he looked backwards press, and to give him all possible protection and forwards with forlorn eyes from her and help without obtruding either officiously compassionate face to the musical-box, and on his attention, they left him free to follow vacantly repeated to himself the same words the one purpose of his heart which still con-

The second day there was no change in book of Hymns reverently on her mother's great necessity of thinking of the living who silent leave-taking, and followed her away, when it was over. By the side of the coffin, The history of Rosamond's daily life, now and, afterwards, when she took him back from his chair, approached Rosamond, and looked anxiously in her face. "I think I could bear it better if you would let me go with her?" he said. "We two should have gone back to Cornwall together, if she had lived. Will you let us still go ba k together now that she has died ?"

Rosamond gently remonstrated and tried From the first, the responsibility of sus- to make him see that it was best to leave the her husband's servant, whose fidelity could be depended on, and whose position made cares and responsibilities which near relations were not capable of undertaking with sufficient composure. She told him that her husband intended to stop in London, to give her one day of rest and quiet which she absolutely needed, and that they then proposed to genna before the funeral took place; and she begged earnestly that he would not think of separating his lot from theirs at a time of trouble and trial, when they ought to be all three most closely united by the ties of mutual sympathy and mutual sorrow.

He listened silently and submissively while peated his simple petition when she had done. The one idea in his mind, now, was that was left on earth of his sister's child.