## ECHONS.

The ear cannot distingaish ono sournd from anothor, unloss there is an interval of one-ninth of a secund between the arrival of the two sounds. Sounds must, therefore, succeed each other at an intervil of one-ninth of a eccond in order to be heard distinetly. Wow, the velocity of sound being eleven hundred and trenty feet a second, in onouinth of a second the sound would trasel one hundred and twenty four feet.

Repeated cehoes thappen whon two ob: stacles are placed opposite to one another, is parallel walls, for example, which reflot the sound successively.
"At Admath, in Bohemia, there' is an echo which repeats soven syllables threo times., At Woodstock, in England, thore is ouerwhich ropents a sound seventecu times during the day, and twenty times during the night. An echo in the - villa Smionetta, near Milan, is mid to rupeat a sharp sound some thirty times audibly. The most celebrated echo among the ancients,-was that of the Metelli, at Rome, which, according to tradition, was capable of repeating the first line of the. 法ncid, containing fifteen syilables, cight.times distinctly.

Dr. Birch describes an echo at Roseheath, Areyleshire. which it is said, does not now exist. When eight or ten notes were played upon a trumpet, they wero returned by this ceho upon a key a third lower than the original notes, and shortly after upon äkey still lower. Dr. Page describes an echo in Fairfax county, Virginia, which possesses a similar curious preperty. This echo gives three distinct reflections, the second much the most distinct. Twenty notes playcd upon a flute are returnedrwith perfect clearness. But the most singular property of this echo is, that some notes in the scale are not returned in their, places, but are supplied with notes which are either thirds, fiths, or octaves.

There is a surprising echi between tro barns, at Belvidere, Alleghany county, N. Y. The echo repeats eleven times a word of one, tro, or three syllables; it has been heard to repeat thirteen times. By placing oneselfin the centre between the tro barns, there will be adouble coho, one in the direction of each barn and a monosyllable will be repeated twenty-two times.
$\Delta$ striking and benutiful effeot of eoho is produced in in certain localities t by the ASviss:mountaincers, who, coptrive to sing.
their Rans des Vaohes in such time that the refected notes forn an agrecable necompaniment to the air itself.
-The Killarncy voles are quite famous, and resound with marrellous clearness to the notes ef $n$ bugle, as the sraveller rows from point to point in the beautiful Jake. -Prof. Silliman.
" Leading Men."-It is customaty to speak of suadry men in the Church of Christ, as "luading men;" i. c., thoy go before others, and mako and second tho motiong-which others vote for. It should not be forgotten, however, that a man in a Christian Church, who really deserves the name of a."leading man,". scrucs! the Church. He moves and goes in the right direction; and determines others in that direction. As Baxter riell.. remarks, "Church grealness consists. in being greatly serviceable."

## AFRICAN DISCOVERIES'

IIt is said that a Mr. Chajition, now in London, has penetrated across the African. continent on the line of the equator and has there discovered, in a densely wooded recion, of lofty mountains (onerpeak calculated by him at 12,000 feet) which contain, according to his conviction, the sources of the four great rivers of the African continent-iths Nile, the Niger, the Zambesi, and the Zaire or Congo.

Tae Office of Grace.-When the house is on fire, if a man should only pray or cry, he may be burnt for all that; therefore he must be aetive and stirring; he must run from place to phioce, and call out for help, and bestir himself as for life in the use of all means whereby the fire may be quenched. So grace must bs acted on; it is not all a man's praying and crying that will profit him or'better hin ; grace must be exercised, or all will be lost-prayers lost, strength lost, zame lost, soul lost.

The.Hranest Glory.-The highest honor and glory that car thly princes cán put upon their subjects, is to communicate to them their greatest secrets. Now this high honor and glory the King of kings hath put upon his people. "For his secrets are with them that fear him, and be will shom them his covenant."
. We The finest composition of human nature, as well as ithe finest chinagmens havd fiaws in itf;'though the patteru may be,of the highest value.

M Bany's Eprort.-A.bright litilo girl just beginning to talk, was very ub. servant of all that passed around . her.She save a gentleman, with a dog, onter a house on the epposite side of the streed. He shat the door, and left the dog withont, who, by various canine movencuts of Fhining and scratching, manifested. painful impatience. Moved by his desmition and complaining, she thrust her small face through the bars of her nursery with dow, and cried in a clear, carnest tour. "'Ing 'e bell, doggie!-'ing e bell!"

Very touching and beautiful were tho words of thic old schoolmaster, as lito passed away. "It is growing dark-tha school mny be dismissed." Down to the very gates of an unseen world he oarribil his love for the children whom ho had trained.

- Plato observes that the minds of children are like bottles with very smadll mouths; if you attempt to fill them ton rapidly, much knorrledge is nasted and little reccived; whicreas .with a small stream they are exisily filled.

A beantiful thought is suggested in the Koran:" Angels, in the grave will not question theo as to the anount of wealth thou has left behind thee, but what good deeds thou hast done while in the world, to entitle thee to a scat among the blest."

A new asteroid was discovered by Mr. II. P. Tuttic, of Harvard College, on the night of the 10th of April. This is now the 66th small planet that is knowu to exist between the orbits of Mars and Jupiter.

In Two comets are now looked for by astronomers-the De . Vico comet, which appeared.in 1855 , and the celebra. ted comet of Charles V.
ven The policy that can strike only while the iron is hot, will be overcome by the perseverance that can mak iron hot by striking.
wes There is many a man whoso tongue might govern multitudes, if ho could only govern his tonguo.
. Eloquence consists in fecling a truth yourself, and making those who hear you feel it too.
-Children are senisible of the zlightest injustice.

Learning makes a man fit company for himself.

